WORK NO 01: of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No. 155 Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	12%	1	415.00	6.50	0.23	71.14		
		For Bell mouth improvement		16	8.00	4.00	0.15	76.80		
							Total	**147.94**	**2,001.28**	**296,060.61**
2	Page No.158. Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	415.00	6.50		2,697.50		
	1.02	2nd 'B' Main Road B Sector		1	205.00	6.50		1,332.50		
	1.03	3rd 'B' main road B sector		1	125.50	6.50		815.75		
	1.04	4th 'B' Main Road B Sector		1	165.00	6.60		1,089.00		
	1.05	5th 'B' Main Road B Sector		1	205.00	6.40		1,312.00		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		1	670.00	6.40		4,288.00		
	1.09	12th B Main Road B Sector		1	418.00	4.80		2,006.40		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		1	418.00	5.40		2,257.20		
	1.11	8th B main road B sector(around Sir M V Park)		1	220.00	6.90		1,518.00		
	1.12	9th B main road B sector(around Sir M V Park)		1	180.00	6.70		1,206.00		
	1.14	11th B main road B sector(around Sir M V Park)		1	220.00	6.00		1,320.00		
	1.16	From 9th B main road(Exist 8th B Main)		1	82.00	4.00		328.00		
							Total	**20,170.35**	**5.30**	**106,902.86**
3	Page No.158. Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	10%	1	415.00	6.50		269.75		
		For Bell mouth improvement		16	8.00	4.00		512.00		
							Total	**781.75**	**33.92**	**26,516.96**
4	Page No.158. Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	415.00	6.50		2,697.50		
	1.02	2nd 'B' Main Road B Sector		1	205.00	6.50		1,332.50		
	1.03	3rd 'B' main road B sector		1	125.50	6.50		815.75		
	1.04	4th 'B' Main Road B Sector		1	165.00	6.60		1,089.00		
	1.05	5th 'B' Main Road B Sector		1	205.00	6.40		1,312.00		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		1	670.00	6.40		4,288.00		
	1.09	12th B Main Road B Sector		1	418.00	4.80		2,006.40		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		1	418.00	5.40		2,257.20		
	1.11	8th B main road B sector(around Sir M V Park)		1	220.00	6.90		1,518.00		
	1.12	9th B main road B sector(around Sir M V Park)		1	180.00	6.70		1,206.00		
	1.14	11th B main road B sector(around Sir M V Park)		1	220.00	6.00		1,320.00		
	1.16	From 9th B main road(Exist 8th B Main)		1	82.00	4.00		328.00		
		For Bell mouth improvement		16	8.00	4.00		512.00		
							Total	**20,682.35**	**12.72**	**263,079.49**
5	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	10%	1	415.00	6.50	0.05	13.49		
	1.02	2nd 'B' Main Road B Sector	10%	1	205.00	6.50	0.05	6.66		
	1.03	3rd 'B' main road B sector	10%	1	125.50	6.50	0.05	4.08		
	1.04	4th 'B' Main Road B Sector	10%	1	165.00	6.60	0.05	5.45		
	1.05	5th 'B' Main Road B Sector	10%	1	205.00	6.40	0.05	6.56		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)	10%	1	670.00	6.40	0.05	21.44		
	1.09	12th B Main Road B Sector	10%	1	418.00	4.80	0.05	10.03		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)	10%	1	418.00	5.40	0.05	11.29		
	1.11	8th B main road B sector(around Sir M V Park)	10%	1	220.00	6.90	0.05	7.59		
	1.12	9th B main road B sector(around Sir M V Park)	10%	1	180.00	6.70	0.05	6.03		
	1.14	11th B main road B sector(around Sir M V Park)	10%	1	220.00	6.00	0.05	6.60		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	1.16	From 9th B main road(Exist 8th B Main)	10%	1	82.00	4.00	0.05	1.64		
		For Bell mouth improvement		16	8.00	4.00	0.05	25.60		
							Total	126.45	7,620.34	963,605.33
6	Page No 171 Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	415.00	6.50	0.04	107.90		
	1.02	2nd 'B' Main Road B Sector		1	205.00	6.50	0.04	53.30		
	1.03	3rd 'B' main road B sector		1	125.50	6.50	0.04	32.63		
	1.04	4th 'B' Main Road B Sector		1	165.00	6.60	0.04	43.56		
	1.05	5th 'B' Main Road B Sector		1	205.00	6.40	0.04	52.48		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		1	670.00	6.40	0.04	171.52		
	1.09	12th B Main Road B Sector		1	418.00	4.80	0.04	80.26		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		1	418.00	5.40	0.04	90.29		
	1.11	8th B main road B sector(around Sir M V Park)		1	220.00	6.90	0.04	60.72		
	1.12	9th B main road B sector(around Sir M V Park)		1	180.00	6.70	0.04	48.24		
	1.14	11th B main road B sector(around Sir M V Park)		1	220.00	6.00	0.04	52.80		
	1.16	From 9th B main road(Exist 8th B Main)		1	82.00	4.00	0.04	13.12		
		For Bell mouth improvement		16	8.00	4.00	0.04	20.48		
							Total	827.29	8,699.42	7,196,977.97
7	Page No 187. Item No.24.41	KSRRB M800 Road markers/Road stud. KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals.								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		2	6.50			13.00		
	1.02	2nd 'B' Main Road B Sector		2	6.50			13.00		
	1.03	3rd 'B' main road B sector		2	6.50			13.00		
	1.04	4th 'B' Main Road B Sector		2	6.60			14.00		
	1.05	5th 'B' Main Road B Sector		2	6.40			13.00		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		2	6.40			13.00		
	1.09	12th B Main Road B Sector		2	4.80			10.00		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		2	5.40			11.00		
	1.11	8th B main road B sector(around Sir M V Park)		2	6.90			14.00		
	1.12	9th B main road B sector(around Sir M V Park)		2	6.70			14.00		
	1.14	11th B main road B sector(around Sir M V Park)		2	6.00			12.00		
	1.16	From 9th B main road(Exist 8th B Main)		2	4.00			8.00		
							Total	148.00	357.22	52,868.56
8	Page No 182 Item No.24.15	KSRRB M800-13 Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	415.00	0.10		13.83		
	1.02	2nd 'B' Main Road B Sector		1	205.00	0.10		6.83		
	1.03	3rd 'B' main road B sector		1	125.50	0.10		4.18		
	1.04	4th 'B' Main Road B Sector		1	165.00	0.10		5.50		
	1.05	5th 'B' Main Road B Sector		1	205.00	0.10		6.83		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		1	670.00	0.10		22.33		
	1.11	8th B main road B sector(around Sir M V Park)		1	220.00	0.10		7.33		
	1.12	9th B main road B sector(around Sir M V Park)		1	180.00	0.10		6.00		
	1.14	11th B main road B sector(around Sir M V Park)		1	220.00	0.10		7.33		
		Edge Line								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		2	415.00	0.15		124.50		
	1.02	2nd 'B' Main Road B Sector		2	205.00	0.15		61.50		
	1.03	3rd 'B' main road B sector		2	125.50	0.15		37.65		
	1.04	4th 'B' Main Road B Sector		2	165.00	0.15		49.50		
	1.05	5th 'B' Main Road B Sector		2	205.00	0.15		61.50		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		2	670.00	0.15		201.00		
	1.09	12th B Main Road B Sector								

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	1.11	8th B main road B sector(around Sir M V Park)		2	220.00	0.15		66.00		
	1.12	9th B main road B sector(around Sir M V Park)		2	180.00	0.15		54.00		
	1.14	11th B main road B sector(around Sir M V Park)		2	220.00	0.15		66.00		
	1.16	From 9th B main road(Exist 8th B Main)		2	82.00	0.15		24.60		
							Total	1,077.23	454.74	489,861.09
9	Page No.190. Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956-09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	1.60	0.90		1.44		
	1.02	2nd 'B' Main Road B Sector		1	1.60	0.90		1.44		
	1.03	3rd 'B' main road B sector		1	1.60	0.90		1.44		
	1.04	4th 'B' Main Road B Sector		1	1.60	0.90		1.44		
	1.05	5th 'B' Main Road B Sector		1	1.60	0.90		1.44		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		1	1.60	0.90		1.44		
	1.09	12th B Main Road B Sector		1	1.60	0.90		1.44		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		1	1.60	0.90		1.44		
	1.11	8th B main road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	1.12	9th B main road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	1.14	11th B main road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	1.16	From 9th B main road(Exist 8th B Main)		1	1.60	0.90		1.44		
							Total	17.28	14,094.82	243,558.49
10	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc complete -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		5				5.00		
	1.02	2nd 'B' Main Road B Sector		2				2.00		
	1.03	3rd 'B' main road B sector		2				2.00		
	1.04	4th 'B' Main Road B Sector		2				2.00		
	1.05	5th 'B' Main Road B Sector		2				2.00		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		3				3.00		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		6				6.00		
	1.11	8th B main road B sector(around Sir M V Park)		1				1.00		
							Total	23.00	2,203.74	50,686.02
11	Page No.270. Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		5	2.83	0.15	0.10	0.21		
	1.02	2nd 'B' Main Road B Sector		2	2.83	0.15	0.10	0.08		
	1.03	3rd 'B' main road B sector		2	2.83	0.15	0.10	0.08		
	1.04	4th 'B' Main Road B Sector		2	2.83	0.15	0.10	0.08		
	1.05	5th 'B' Main Road B Sector		2	2.83	0.15	0.10	0.08		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		3	2.83	0.15	0.10	0.13		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		6	2.83	0.15	0.10	0.25		
	1.11	8th B main road B sector(around Sir M V Park)		1	2.83	0.15	0.10	0.04		
							Total	0.97	7,273.72	7,091.68
12	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates ISand/ Kanker J Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		Dismantling of Masonry,								
		Dismantling of Kerbs						12.92		
								150.36		
							Total	163.28	60.42	9,865.14
13	Page No.136 Item No.17.4	KSRRB M100-4.1. Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1. Surface Road								

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		Dismantling of Masonry.						201.55		
		Dismantling of Kerbs						2,345.55		
							Total	2,547.11	2.12	5,399.86
		Footpath Improvements								
14	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	25%	2.00	415.00	0.20	0.10	4.15		
	1.02	2nd 'B' Main Road B Sector	20%	2.00	205.00	0.20	0.10	1.64		
	1.16	From 9th B main road(Exist 8th B Main)	10%	2.00	82.00	0.20	0.10	0.33		
							Total	6.12	4,479.56	27,405.95
15	Page No.27. Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	25%	2	415.00			461.11		
	1.02	2nd 'B' Main Road B Sector	20%	2	205.00			182.22		
	1.16	From 9th B main road(Exist 8th B Main)	10%	2	82.00			36.44		
							Total	679.78	432.48	293,990.29
16	Page No.270. Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	30%	2	415.00			249.00		
	1.02	2nd 'B' Main Road B Sector	35%	2	205.00			143.50		
	1.16	From 9th B main road(Exist 8th B Main)	5%	2	82.00			8.20		
							Total	400.70	104.94	42,049.46
17	Page No.180 Item No.24.1	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	55%	2	415.00	0.27		120.97		
	1.02	2nd 'B' Main Road B Sector	55%	2	205.00	0.27		59.76		
	1.16	From 9th B main road(Exist 8th B Main)	15%	2	82.00	0.27		6.52		
							Total	187.25	84.80	15,878.72
18	Page No.147. Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		2	415.00	0.50		415.00		
	1.02	2nd 'B' Main Road B Sector		2	205.00	0.50		205.00		
	1.16	From 9th B main road(Exist 8th B Main)		2	82.00	0.50		82.00		
							Total	702.00	24.38	17,114.76
19	Page No. 155. Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		2	415.00	0.50	0.20	83.00		
	1.02	2nd 'B' Main Road B Sector		2	205.00	0.50	0.20	41.00		
	1.16	From 9th B main road(Exist 8th B Main)		2	82.00	0.50	0.20	16.40		
							Total	140.40	2,001.28	280,979.71
20	Page No.103. Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		2	415.00	0.50		415.00		
	1.02	2nd 'B' Main Road B Sector		2	205.00	0.50		205.00		
	1.16	From 9th B main road(Exist 8th B Main)		2	82.00	0.50		82.00		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
							Total	702.00	1,116.18	783,558.36
21	Page No.270 Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	75%	2.00	415.00	1.10		684.75		
	1.02	2nd 'B' Main Road B Sector	70%	2.00	205.00	1.10		315.70		
	1.03	3rd 'B' main road B sector	50%	2.00	125.50	1.10		138.05		
	1.04	4th 'B' Main Road B Sector	60%	2.00	165.00	1.10		217.80		
	1.05	5th 'B' Main Road B Sector	65%	2.00	205.00	1.10		293.15		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)	65%	2.00	670.00	1.10		958.10		
	1.09	12th B Main Road B Sector	65%	2.00	418.00	1.10		597.74		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)	70%	2.00	418.00	1.10		643.72		
	1.11	8th B main road B sector(around Sir M V Park)	60%	2.00	220.00	1.10		387.20		
	1.12	9th B main road B sector(around Sir M V Park)	85%	2.00	180.00	1.10		336.60		
	1.14	11th B main road B sector(around Sir M V Park)	70%	2.00	220.00	1.10		338.80		
	1.16	From 9th B main road(Exist 8th B Main)	85%	2.00	82.00	1.10		153.34		
							Total	5,064.95	208.82	1,057,662.86
		Drain Improvements								
22	Page No.143 Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		2	415.00	0.60	0.20	99.60		
	1.02	2nd 'B' Main Road B Sector		2	205.00	0.60	0.20	49.20		
	1.03	3rd 'B' main road B sector		2	125.50	0.60	0.20	30.12		
	1.04	4th 'B' Main Road B Sector		2	165.00	0.60	0.20	39.60		
	1.05	5th 'B' Main Road B Sector		2	205.00	0.60	0.20	49.20		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		2	670.00	0.60	0.20	160.80		
	1.09	12th B Main Road B Sector		2	418.00	0.60	0.20	100.32		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)		2	418.00	0.60	0.20	100.32		
	1.11	8th B main road B sector(around Sir M V Park)		2	220.00	0.60	0.20	52.80		
	1.12	9th B main road B sector(around Sir M V Park)		2	180.00	0.60	0.20	43.20		
	1.13	10th B main road B sector(around Sir M V Park)		2	220.00	0.60	0.20	52.80		
	1.14	11th B main road B sector(around Sir M V Park)		2	220.00	0.60	0.20	52.80		
	1.16	From 9th B main road(Exist 8th B Main)		2	82.00	0.60	0.20	19.68		
		For Cross culvert								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	7.00	1.70	1.00	11.90		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		3	7.00	1.90	1.00	39.90		
		50% reduction for Culvert opening						(31.85)		
							Total	882.29	137.80	121,579.56
23	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1.00	7.00	1.70	0.10	1.19		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		3.00	7.00	1.90	0.10	3.99		
							Total	5.18	4,479.56	23,204.12
24	Page No.229 Item No.28.6.2	KSRRB M2200-6. Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification MORTH Specification No. 1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)			1.19	@90		0.11		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)			1.19	@90 Kg/Cum		0.11		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)			3.99	@90 Kg/Cum		0.36		
							Total	0.57	72,326.98	41,485.06
25	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Walls								
		For Chute Drains		52.00	0.71	0.10		3.69		
		For Cross culvert								
		Culvert Bottom slab								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	7.00	1.70	0.20	2.38		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		3	7.00	1.70	0.20	7.14		
		Culvert side walls								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		2	7.00	0.20	0.90	2.52		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		6	7.00	0.20	0.90	7.56		
							Total	23.29	7,070.20	164,679.10
26	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	15%	2	415.00	1.10		136.95		
	1.02	2nd 'B' Main Road B Sector	20%	2	205.00	1.10		90.20		
	1.03	3rd 'B' main road B sector	40%	2	125.50	1.10		110.44		
	1.04	4th 'B' Main Road B Sector	30%	2	165.00	1.10		108.90		
	1.05	5th 'B' Main Road B Sector	30%	2	205.00	1.10		135.30		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)	25%	2	670.00	1.10		368.50		
	1.09	12th B Main Road B Sector	30%	2	418.00	1.10		275.88		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)	20%	2	418.00	1.10		183.92		
	1.11	8th B main road B sector(around Sir M V Park)	10%	2	220.00	1.10		48.40		
	1.12	9th B main road B sector(around Sir M V Park)	5%	2	180.00	1.10		19.80		
	1.14	11th B main road B sector(around Sir M V Park)	2%	2	220.00	1.10		9.68		
	1.16	From 9th B main road(Exist 8th B Main)	5%	2	82.00	1.10		9.02		
		For Chute Drain		52.00	0.71	0.40		14.77		
							Total	1,511.76	2,337.00	3,532,978.45
27	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1	7.00	1.70		11.90		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		3	7.00	1.90		39.90		
							Total	51.80	5,418.00	280,652.40
28	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1 :3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	5%	1	415.00	0.90		373.50		
	1.02	2nd 'B' Main Road B Sector	5%	1	205.00	0.90		184.50		
	1.03	3rd 'B' main road B sector	5%	1	125.50	0.90		112.95		
	1.04	4th 'B' Main Road B Sector	5%	1	165.00	0.90		148.50		
	1.05	5th 'B' Main Road B Sector	5%	1	205.00	0.90		184.50		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)	5%	1	670.00	0.90		603.00		
	1.09	12th B Main Road B Sector	5%	1	418.00	0.90		376.20		
	1.10	13th B Main Road B Sector, (Beside Bharat Gas)	5%	1	418.00	0.90		376.20		
	1.11	8th B main road B sector(around Sir M V Park)	5%	1	220.00	0.90		198.00		
	1.12	9th B main road B sector(around Sir M V Park)	5%	1	180.00	0.90		162.00		
	1.14	11th B main road B sector(around Sir M V Park)	5%	1	220.00	0.90		198.00		
	1.16	From 9th B main road(Exist 8th B Main)	5%	1	82.00	0.90		73.80		
							Total	2,991.15	105.00	314,070.75

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yelahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Dismantling and miscellaneous items								
29	Page No.139 Item No 18.26	KSRRB M200-15.1 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry A. Rubble Stone masonry in lime mortar MORTH Specification No 202								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Culverts								
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)		1.00	6.50	0.40	1.00	2.60		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		1.00	6.60	0.40	1.00	2.64		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)		3.00	6.40	0.40	1.00	7.68		
							Total	**12.92**	**306.34**	**3,957.91**
30	Page No.141 Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	m							
	1.01	1st 'B' main road B sector(Mahaganapathi Temple)	25%	2.00	415.00			207.50		
	1.02	2nd 'B' Main Road B Sector	20%	2.00	205.00			82.00		
	1.03	3rd 'B' main road B sector	35%	2.00	125.50			87.85		
	1.04	4th 'B' Main Road B Sector	30%	2.00	165.00			99.00		
	1.05	5th 'B' Main Road B Sector	35%	2.00	205.00			143.50		
	1.08	7th B Main Road B Sector (Opposite Yelahanka New Town)	35%	2.00	670.00			469.00		
	1.09	12th B Main Road B Sector	45%	2.00	418.00			376.20		
	1.11	8th B main road B sector(around Sir M V Park)	35%	2.00	220.00			154.00		
	1.12	9th B main road B sector(around Sir M V Park)	25%	2.00	180.00			90.00		
	1.14	11th B main road B sector(around Sir M V Park)	35%	2.00	220.00			154.00		
	1.16	From 9th B main road(Exist 8th B Main)	10%	2.00	82.00			16.40		
							Total	**1,879.45**	**12.72**	**23,906.60**
		Rain Water Harvesting								
31	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)									
		For New Drain Portion	Cum	3	0.31		1.80	1.68		
								1.68	**137.80**	**231.99**
32	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.									
		a) 40mm Jelly.		3	0.31176495		0.40	0.37	1,901.00	711.20
				(3.142*0.63*0.63)/4						
		b) 20mm Jelly.	Cum	3	0.31176495		0.40	0.37	1,901.00	711.20
		c) Coarse sand.	Cum	3	0.31176495		0.30	0.28	2,651.00	743.84
		d) Fine Sand	Cum	3	0.31176495		0.20	0.19	2,651.00	495.89
		e) 12.5mm chips	Cum	3	0.31176495		0.30	0.28	1,901.00	533.40
33	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)									
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,	Rmt	5.4				5.40		
								5.40	**10,822.32**	**58,440.54**

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
34	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.									
			Sqm	3	0.31			0.94		
								0.94	71.03	66.43
									Total Construction cost	16,799,542.57
									GST 12%	2,015,945.11
									Design Report, Proof Checking & PMC Amount	335,990.85
									Tender Premium 5%	839,977.13
									Sub Total	19,991,455.66
									Miscellaneous & Round off	8,544.34
									Grand Total	20,000,000.00

Certificate.-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer
Yalahanka Division, BBMP

Assistant Executive Engineer
Yalahanka Division
BBMP

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Executive Engineer
Yalahanka Division,
BBMP

WORK NO 02: of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No. 155. Item No.20 18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	15%	1	510.00	7.40	0.23	127.37		
	2.08	7th cross road B sector(OMEGA-Hospital)	15%	1	360.00	7.00	0.23	85.05		
		For Bell Mouth portion		10	8.00	4.00	0.15	48.00		
							Total	260.42	2001.28	521178.3408
2	Page No.158. Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.01	10th B cross road B sector(around Shankarnag Park)		1	220.00	6.80		1,496.00		
	2.02	11th B cross road B sector(around Shankarnag Park)		1	125.00	6.50		812.50		
	2.04	13th B cross road B sector(around Shankarnag Park)		1	107.00	6.50		695.50		
	2.05	14th B cross road B sector(around Shankarnag Park)		1	280.00	7.00		1,960.00		
	2.06	9th cross road B sector(around Shankarnag Park)		1	100.00	8.00		800.00		
	2.06b	9th cross road B sector(around Shankarnag Park)		1	330.00	8.60		2,838.00		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		1	510.00	7.40		3,774.00		
	2.08	7th cross road B sector(OMEGA-Hospital)		1	360.00	7.00		2,520.00		
	2.09	6th cross road B sector		1	195.00	6.30		1,228.50		
							Total	16,124.50	5.30	85459.85
3	Page No.158. Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	6%	1	510.00	7.40		226.44		
	2.08	7th cross road B sector(OMEGA-Hospital)	6%	1	360.00	7.00		142.90		
		For Bell Mouth portion		10	8.00	4.00		320.00		
							Total	689.34	33.92	23,382.30
4	Page No.158. Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.01	10th B cross road B sector(around Shankarnag Park)		1	220.00	6.80		1,496.00		
	2.02	11th B cross road B sector(around Shankarnag Park)		1	125.00	6.50		812.50		
	2.04	13th B cross road B sector(around Shankarnag Park)		1	107.00	6.50		695.50		
	2.05	14th B cross road B sector(around Shankarnag Park)		1	280.00	7.00		1,960.00		
	2.06	9th cross road B sector(around Shankarnag Park)		1	100.00	8.00		800.00		
	2.06b	9th cross road B sector(around Shankarnag Park)		1	330.00	8.60		2,838.00		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		1	510.00	7.40		3,962.70		
	2.08	7th cross road B sector(OMEGA-Hospital)		1	360.00	7.00		2,646.00		
	2.09	6th cross road B sector		1	195.00	6.30		1,228.50		
		For Bell Mouth portion		10	8.00	4.00		320.00		
							Total	16,759.20	12.72	213,177.02
5	Page No.160. Item No.21 17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.01	10th B cross road B sector(around Shankarnag Park)	10%	1	220.00	6.80	0.05	7.48		
	2.02	11th B cross road B sector(around Shankarnag Park)	15%	1	125.00	6.50	0.05	6.09		
	2.04	13th B cross road B sector(around Shankarnag Park)	10%	1	107.00	6.50	0.05	3.48		
	2.05	14th B cross road B sector(around Shankarnag Park)	15%	1	280.00	7.00	0.05	14.70		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	2.06	9th cross road B sector(around Shankarnag Park)	15%	1	100.00	8.00	0.05	6.00		
	2.06b	9th cross road B sector(around Shankarnag Park)	15%	1	330.00	8.60	0.05	21.29		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	15%	1	510.00	7.40	0.05	28.31		
	2.08	7th cross road B sector(OMEGA-Hospital)	15%	1	360.00	7.00	0.05	18.90		
	2.09	6th cross road B sector	15%	1	195.00	6.30	0.05	9.21		
		For Bell Mouth portion		10	8.00	4.00	0.05	16.00		
							Total	131.46	7,620.34	1,001,731.79
6	Page No. 171 Item No 21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	2.01	10th B cross road B sector(around Shankarnag Park)		1	220.00	6.80	0.04	59.84		
	2.02	11th B cross road B sector(around Shankarnag Park)		1	125.00	6.50	0.04	32.50		
	2.04	13th B cross road B sector(around Shankarnag Park)		1	107.00	6.50	0.04	27.82		
	2.05	14th B cross road B sector(around Shankarnag Park)		1	280.00	7.00	0.04	78.40		
	2.06	9th cross road B sector(around Shankarnag Park)		1	100.00	8.00	0.04	32.00		
	2.06b	9th cross road B sector(around Shankarnag Park)		1	330.00	8.60	0.04	113.52		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		1	510.00	7.40	0.04	150.96		
	2.08	7th cross road B sector(OMEGA-Hospital)		1	360.00	7.00	0.04	100.80		
	2.09	6th cross road B sector		1	195.00	6.30	0.04	49.14		
		For Bell Mouth portion		10	8.00	4.00	0.04	12.80		
							Total	657.78	8,699.42	5,722,304.49
7	Page No.187. Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35 Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals.								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	2.01	10th B cross road B sector(around Shankarnag Park)		2	6.80			14.00		
	2.02	11th B cross road B sector(around Shankarnag Park)		2	6.50			13.00		
	2.04	13th B cross road B sector(around Shankarnag Park)		2	6.50			13.00		
	2.05	14th B cross road B sector(around Shankarnag Park)		2	7.00			14.00		
	2.06	9th cross road B sector(around Shankarnag Park)		2	8.00			16.00		
	2.06b	9th cross road B sector(around Shankarnag Park)		2	8.60			18.00		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		2	7.40			15.00		
	2.08	7th cross road B sector(OMEGA-Hospital)		2	7.00			14.00		
	2.09	6th cross road B sector		2	6.30			13.00		
							Total	130.00	357.22	46,438.60
8	Page No.182 Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	2.01	10th B cross road B sector(around Shankarnag Park)		1	220.00	0.10		7.33		
	2.02	11th B cross road B sector(around Shankarnag Park)		1	125.00	0.10		4.17		
	2.04	13th B cross road B sector(around Shankarnag Park)		1	107.00	0.10		3.57		
	2.05	14th B cross road B sector(around Shankarnag Park)		1	280.00	0.10		9.33		
	2.06	9th cross road B sector(around Shankarnag Park)		1	100.00	0.10		3.33		
	2.06b	9th cross road B sector(around Shankarnag Park)		1	330.00	0.10		11.00		

Detailed Quantity Estimate for Road and allied Works
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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		1	510.00	0.10		17.00		
	2.08	7th cross road B sector(OMEGA-Hospital)		1	360.00	0.10		12.00		
	2.09	6th cross road B sector		1	195.00	0.10		6.50		
		Edge Line								
	2.01	10th B cross road B sector(around Shankarnag Park)		2	220.00	0.15		66.00		
	2.02	11th B cross road B sector(around Shankarnag Park)		2	125.00	0.15		37.50		
	2.04	13th B cross road B sector(around Shankarnag Park)		2	107.00	0.15		32.10		
	2.05	14th B cross road B sector(around Shankarnag Park)		2	280.00	0.15		84.00		
	2.06	9th cross road B sector(around Shankarnag Park)		2	100.00	0.15		30.00		
	2.06b	9th cross road B sector(around Shankarnag Park)		2	330.00	0.15		99.00		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		2	510.00	0.15		153.00		
	2.08	7th cross road B sector(OMEGA-Hospital)		2	360.00	0.15		108.00		
	2.09	6th cross road B sector		2	195.00	0.15		58.50		
							Total	742.33	454.74	337,568.66
9	Page No.190, Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.01	10th B cross road B sector(around Shankarnag Park)		1	1.60	0.90		1.44		
	2.02	11th B cross road B sector(around Shankarnag Park)		1	1.60	0.90		1.44		
	2.04	13th B cross road B sector(around Shankarnag Park)		1	1.60	0.90		1.44		
	2.05	14th B cross road B sector(around Shankarnag Park)		1	1.60	0.90		1.44		
	2.06	9th cross road B sector(around Shankarnag Park)		1	1.60	0.90		1.44		
	2.06b	9th cross road B sector(around Shankarnag Park)		0	1.60	0.90		-		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		1	1.60	0.90		1.44		
	2.08	7th cross road B sector(OMEGA-Hospital)		1	1.60	0.90		1.44		
	2.09	6th cross road B sector		1	1.60	0.90		1.44		
							Total	11.52	14,094.82	162,372.33
10	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	2.02	11th B cross road B sector(around Shankarnag Park)		2				2.00		
	2.05	14th B cross road B sector(around Shankarnag Park)		1				1.00		
	2.06b	9th cross road B sector(around Shankarnag Park)		3				3.00		
	2.09	6th cross road B sector		2				2.00		
							Total	8.00	2,203.74	17,629.92
11	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	2.02	11th B cross road B sector(around Shankarnag Park)		2	2.83	0.15	0.10	0.08		
	2.05	14th B cross road B sector(around Shankarnag Park)		1	2.83	0.15	0.10	0.04		
	2.06b	9th cross road B sector(around Shankarnag Park)		3	2.83	0.15	0.10	0.13		
	2.09	6th cross road B sector		2	2.83	0.15	0.10	0.08		
							Total	0.34	7,273.72	2,466.66

Detailed Quantity Estimate for Road and allied Works
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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
12	Page No.136 Item No 17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker J Moorum. KSRRB M100-1 Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		Dismantling of Masonry,						20.63		
		Dismantling of Kerbs						117.10		
		Stone Slabs,						81.90		
							Total	219.62	60.42	13,269.50
13	Page No.136 Item No.17.4	KSRRB M100-4.1. Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1 Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		Dismantling of Masonry,						321.75		
		Dismantling of Kerbs						1,826.70		
		Stone Slabs,						1,769.04		
							Total	3,917.49	2.12	8,305.07
		Footpath Improvements								
14	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	2.01	10th B cross road B sector(around Shankarnag Park)	15%	2.00	220.00	0.20	0.10	1.32		
	2.02	11th B cross road B sector(around Shankarnag Park)	15%	2.00	125.00	0.20	0.10	0.75		
	2.04	13th B cross road B sector(around Shankarnag Park)	30%	2.00	107.00	0.20	0.10	1.28		
	2.05	14th B cross road B sector(around Shankarnag Park)	40%	2.00	280.00	0.20	0.10	4.48		
	2.06	9th cross road B sector(around Shankarnag Park)	20%	2.00	100.00	0.20	0.10	0.80		
	2.06b	9th cross road B sector(around Shankarnag Park)	20%	2.00	330.00	0.20	0.10	2.64		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	30%	2.00	510.00	0.20	0.10	6.12		
	2.08	7th cross road B sector(OMEGA-Hospital)	50%	2.00	360.00	0.20	0.10	7.20		
							Total	24.59	4,479.56	110,170.30
15	Page No.27 Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc , complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	2.01	10th B cross road B sector(around Shankarnag Park)	15%	2.00	220.00			146.67		
	2.02	11th B cross road B sector(around Shankarnag Park)	15%	2.00	125.00			83.33		
	2.04	13th B cross road B sector(around Shankarnag Park)	30%	2.00	107.00			142.67		
	2.05	14th B cross road B sector(around Shankarnag Park)	40%	2.00	280.00			497.78		
	2.06	9th cross road B sector(around Shankarnag Park)	20%	2.00	100.00			88.89		
	2.06b	9th cross road B sector(around Shankarnag Park)	20%	2.00	330.00			293.33		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	30%	2.00	510.00			680.00		
	2.08	7th cross road B sector(OMEGA-Hospital)	50%	2.00	360.00			800.00		
							Total	2,732.67	432.48	1,181,823.68
16	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	2.01	10th B cross road B sector(around Shankarnag Park)	15%	2	220.00			66.00		
	2.02	11th B cross road B sector(around Shankarnag Park)	20%	2	125.00			50.00		
	2.04	13th B cross road B sector(around Shankarnag Park)	30%	2	107.00			64.20		
	2.05	14th B cross road B sector(around Shankarnag Park)	20%	2	280.00			112.00		
	2.06	9th cross road B sector(around Shankarnag Park)	20%	2	100.00			40.00		
	2.06b	9th cross road B sector(around Shankarnag Park)	30%	2	330.00			132.00		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	10%	2	510.00			306.00		
	2.08	7th cross road B sector(OMEGA-Hospital)			360.00			72.00		
							Total	842.20	104.94	88,380.47
17	Page No.180 Item No.24.1	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.01	10th B cross road B sector(around Shankarnag Park)	30%	2	220.00	0.27		34.98		
	2.02	11th B cross road B sector(around Shankarnag Park)	35%	2	125.00	0.27		23.19		
	2.04	13th B cross road B sector(around Shankarnag Park)	60%	2	107.00	0.27		34.03		
	2.05	14th B cross road B sector(around Shankarnag Park)	60%	2	280.00	0.27		89.04		
	2.06	9th cross road B sector(around Shankarnag Park)	40%	2	100.00	0.27		21.20		
	2.06b	9th cross road B sector(around Shankarnag Park)	40%	2	330.00	0.27		69.96		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	60%	2	510.00	0.27		162.18		
	2.08	7th cross road B sector(OMEGA-Hospital)	60%	2	360.00	0.27		114.48		
							Total	549.05	84.80	46,559.74
18	Page No.147, Item No.19.66	KSRRB M300-59.2 Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc .. complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.06	9th cross road B sector(around Shankarnag Park)		2	100.00	1.00		200.00		
							Total	200.00	24.38	4,876.00
19	Page No 155, Item No.20.18	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	2.06	9th cross road B sector(around Shankarnag Park)		2	100.00	1.00	0.20	40.00		
							Total	40.00	2,001.28	80,051.20
20	Page No.103, Item No.14.6	KSRB 14.6-1 Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.06	9th cross road B sector(around Shankarnag Park)		2	100.00	1.00		200.00		
							Total	200.00	1,116.18	223,236.00
21	Page No.270, Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.01	10th B cross road B sector(around Shankarnag Park)	85%	2.00	220.00	1.10		411.40		
	2.02	11th B cross road B sector(around Shankarnag Park)	80%	2.00	125.00	1.10		220.00		
	2.04	13th B cross road B sector(around Shankarnag Park)	40%	2.00	107.00	1.10		94.16		
	2.05	14th B cross road B sector(around Shankarnag Park)	30%	2.00	280.00	1.10		184.80		
	2.06	9th cross road B sector(around Shankarnag Park)	60%	2.00	100.00	1.10		132.00		
	2.06b	9th cross road B sector(around Shankarnag Park)	60%	2.00	330.00	1.10		435.60		
	2.08	7th cross road B sector(OMEGA-Hospital)	70%	2.00	360.00	1.10		554.40		
	2.10	4th cross road B sector	65%	2.00	330.00	1.10		471.90		
							Total	2,504.26	208.82	522,939.57
		Drain Improvements								
22	Page No 143, Item No.19.1	KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Work								
	2.09	6th cross road B sector		2	195.00	1.00	1.00	390.00		
		40% reduction for drain opening						(156.00)		
		Desilting								
	2.01	10th B cross road B sector(around Shankarnag Park)		2	220.00	0.60	0.30	79.20		
	2.02	11th B cross road B sector(around Shankarnag Park)		2	125.00	0.60	0.30	45.00		
	2.04	13th B cross road B sector(around Shankarnag Park)		2	107.00	0.60	0.30	38.52		

Detailed Quantity Estimate for Road and allied Works
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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	2.05	14th B cross road B sector(around Shankarnag Park)		2	280.00	0.60	0.30	100.80		
	2.06	9th cross road B sector(around Shankarnag Park)		2	100.00	0.60	0.30	36.00		
	2.06b	9th cross road B sector(around Shankarnag Park)		2	330.00	0.60	0.30	118.80		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)		2	510.00	0.60	0.30	183.60		
	2.08	7th cross road B sector(OMEGA-Hospital)		2	360.00	0.60	0.30	129.60		
	2.09	6th cross road B sector		2	195.00	0.60	0.30	70.20		
		For Cross culvert								
	2.05	14th B cross road B sector(around Shankarnag Park)		1	7.00	1.70	1.00	11.90		
	2.06	9th cross road B sector(around Shankarnag Park)		1	9.00	1.70	1.00	15.30		
		50% reduction for Culvert opening						(13.60)		
							Total	1,049.32	137.80	144,596.30
23	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Work								
	2.09	6th cross road B sector		2	195.00	1.00	0.10	39.00		
		For Cross culvert								
	2.05	14th B cross road B sector(around Shankarnag Park)		1.00	7.00	1.70	0.10	1.19		
	2.06	9th cross road B sector(around Shankarnag Park)		1.00	9.00	1.70	0.10	1.53		
							Total	41.72	4,479.56	186,887.24
24	Page No.229 Item No.28.8.2	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		Drain Work			Concrete in Cum					
	2.09	6th cross road B sector			39.00	@60 Kg/Cum Concrete		2.34		
		For Cross culvert								
	2.05	14th B cross road B sector(around Shankarnag Park)			1.19	@90 Kg/Cum Concrete		0.11		
	2.06	9th cross road B sector(around Shankarnag Park)			1.53	@90 Kg/Cum		0.14		
							Total	2.58	72,326.98	186,950.78
25	Page No.270. Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Bottom Slab								
	2.09	6th cross road B sector		2	195.00	1.00	0.15	58.50		
		Drain Walls								
	2.09	6th cross road B sector		4	195.00	0.15	0.75	87.75		
		For Chute Drains		4.00	1.41	0.10		0.56		
		For Cross culvert								
		Culvert Bottom slab								
	2.05	14th B cross road B sector(around Shankarnag Park)		1	7.00	1.70	0.20	2.38		
	2.06	9th cross road B sector(around Shankarnag Park)		1	9.00	1.70	0.20	3.06		
		Culvert side walls								
	2.05	14th B cross road B sector(around Shankarnag Park)		2	7.00	0.20	0.90	2.52		
	2.06	9th cross road B sector(around Shankarnag Park)		2	9.00	0.20	0.90	3.24		
							Total	158.01	7,070.20	1,117,190.58
26	Page No.27. Item No.5.32	Removing B.S. slab of Drain and stacking								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.09	6th cross road B sector		2	195.00	2.10		819.00		
							Total	819.00	104.94	85,945.86
27	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.01	10th B cross road B sector(around Shankarnag Park)	2%	2	220.00	1.10		7.26		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	2.02	11th B cross road B sector(around Shankarnag Park)	10%	2	125.00	1.10		27.50		
	2.04	13th B cross road B sector(around Shankarnag Park)	50%	2	107.00	1.10		117.70		
	2.05	14th B cross road B sector(around Shankarnag Park)	60%	2	280.00	1.10		369.60		
	2.06	9th cross road B sector(around Shankarnag Park)	30%	2	100.00	1.10		66.00		
	2.06b	9th cross road B sector(around Shankarnag Park)	30%	2	330.00	1.10		217.80		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	40%	2	510.00	1.10		448.80		
	2.08	7th cross road B sector(OMEGA-Hospital)	20%	2	360.00	1.10		158.40		
	2.09	6th cross road B sector	100%	2	195.00	1.10		429.00		
		For Chute Drains		4	0.40	1.10		1.76		
							Total	1,843.82	2,337.00	4,309,007.34
28	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	2.05	14th B cross road B sector(around Shankarnag Park)		1	7.00	2.00		14.00		
	2.06	9th cross road B sector(around Shankarnag Park)		1	9.00	1.70		15.30		
							Total	29.30	5,418.00	158,747.40
29	Page No.27. Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1 :3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	2.01	10th B cross road B sector(around Shankarnag Park)	5%	2	220.00	1.20		26.40		
	2.02	11th B cross road B sector(around Shankarnag Park)	5%	2	125.00	1.20		15.00		
	2.04	13th B cross road B sector(around Shankarnag Park)	5%	2	107.00	1.20		12.84		
	2.05	14th B cross road B sector(around Shankarnag Park)	5%	2	280.00	1.20		33.60		
	2.06	9th cross road B sector(around Shankarnag Park)	5%	2	100.00	1.20		12.00		
	2.06b	9th cross road B sector(around Shankarnag Park)	5%	2	330.00	1.20		39.60		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	5%	2	510.00	1.20		61.20		
	2.08	7th cross road B sector(OMEGA-Hospital)	5%	2	360.00	1.20		43.20		
	2.09	6th cross road B sector	5%	2	195.00	1.20		23.40		
							Total	267.24	105.00	28,060.20
		Dismantling and miscellaneous Items								
30	Page No.139 Item No.18.26	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Drains								
	2.09	6th cross road B sector		2.00	195.00	0.25	0.15	14.63		
		For Culverts								
	2.05	14th B cross road B sector(around Shankarnag Park)		1.00	7.00	0.40	1.00	2.80		
	2.06	9th cross road B sector(around Shankarnag Park)		1.00	8.00	0.40	1.00	3.20		
							Total	20.63	306.34	6,318.26
31	Page No.141 Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	m							
	2.01	10th B cross road B sector(around Shankarnag Park)	15%	2.00	220.00			66.00		
	2.02	11th B cross road B sector(around Shankarnag Park)	15%	2.00	125.00			37.50		
	2.04	13th B cross road B sector(around Shankarnag Park)	30%	2.00	107.00			64.20		
	2.05	14th B cross road B sector(around Shankarnag Park)	40%	2.00	280.00			224.00		
	2.06	9th cross road B sector(around Shankarnag Park)	20%	2.00	100.00			40.00		
	2.06b	9th cross road B sector(around Shankarnag Park)	20%	2.00	330.00			132.00		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	30%	2.00	510.00			306.00		
	2.08	7th cross road B sector(OMEGA-Hospital)	50%	2.00	360.00			360.00		
	2.09	6th cross road B sector	60%	2.00	195.00			234.00		
							Total	1,463.70	12.72	18,618.26
		Rain Water Harvesting								
32	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)									

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		For New Drain Portion	Cum	7	0.31176495		1.80	3.93		
								3.93	**137.80**	**541.31**
33		Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
		a) 40mm Jelly.		7	0.31176495		0.40	0.87	1,901.00	1,659.46
					(3.142*0.63*0.63)/4					
		b) 20mm Jelly.	Cum	7	0.31176495		0.40	0.87	1,901.00	1,659.46
		c) Coarse sand.	Cum	7	0.31176495		0.30	0.65	2,651.00	1,735.63
		d) Fine Sand	Cum	7	0.31176495		0.20	0.44	2,651.00	1,157.08
		e) 12.5mm chips	Cum	7	0.31176495		0.30	0.65	1,901.00	1,244.60
34		Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth.	Rmt	12.6				12.60		
								12.60	**10,822.32**	**136,361.25**
35		Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
			Sqm	7	0.31176495			2.18		
								2.18	**71.03**	**155.01**
									Total Construction cost	**16,800,157.53**
									GST 12%	**2,016,018.90**
									Design Report, Proof Checking & PMC Amount	**336,003.15**
									Tender Premium 5%	**840,007.88**
									Sub Total	**19,992,187.46**
									Miscellaneous & Round off	**7,812.09**
									Grand Total	**20,000,000.00**

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Intra Support Engineering Consultants Pvt. Ltd.

Intra Support Engineering Consultants Pvt. Ltd. ★ BANGALORE

Assistant Engineer,
Yalahanka Division, BBMP

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-106

Assistant Executive Engineer,
Yalahanka Division, BBMP

Executive Engineer,
Yalahanka Division,
BBMP

WORK NO 03 : of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No.146 Item No.19.55	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet I surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.15	4th A Main road sector A(Raj Residency opposite road)		1.00	136.00	3.50		476.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		2.00	56.00	2.00		224.00		
							Total	**700.00**	**95.40**	**66,780.00**
2	Page No. 146 Item No.19.51	KSRRB 300-45. Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications.MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.15	4th A Main road sector A(Raj Residency opposite road)		1.00	136.00	5.00		680.00		
	3.18	No 336(Deepali House Opposite Road)(Aster Clinic)		2.00	56.00	2.00		224.00		
							Total	**904.00**	**84.80**	**76,659.20**
3	Page No.147 Item No.19.66	KSRRB M300-59 2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc .. complete as per specifications. MORTH Specification No 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	136.00	5.00		680.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	2.00		112.00		
							Total	**792.00**	**24.38**	**19,308.96**
4	Page No.143 Item No.19.14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	136.00	5.00	0.23	153.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	2.00	0.23	25.20		
							Total	**178.20**	**43.46**	**7,744.57**
5	Page No.144 Item No.19.20	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.15	4th A Main road sector A(Raj Residency opposite road)		1		137.70		137.70		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1		22.68		22.68		
							Total	**160.38**	**34.98**	**5,610.09**
6	Page No.153 Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	136.00	5.00	0.15	102.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	2.00	0.15	16.80		
							Total	**118.80**	**1,855.00**	**220,374.00**
7	Page No. 155. Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.04	14th A cross road A- sector	15%	1	255.00	7.36	0.23	63.38		
	3.05	13th A cross road A- sector	15%	1	155.00	4.10	0.23	21.45		
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	136.00	5.00	0.23	153.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		2	56.00	2.00	0.23	50.40		
		For Bell mouth improvement		18	8.00	4.00	0.15	86.40		
							Total	**374.63**	**2,001.28**	**749,740.78**

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
8	Page No.158, Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.02	12th A cross road A- sector		1	86.00	5.80		498.80		
	3.03	12th cross road A- sector		1	150.00	4.20		630.00		
	3.04	14th A cross road A- sector		1	255.00	7.36		1,878.00		
	3.05	13th A cross road A- sector		1	155.00	4.10		635.50		
	3.07	10th A cross road A- sector		1	170.00	7.00		1,190.00		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	290.00	6.56		1,901.00		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1	120.00	4.30		516.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		1	178.80	6.79		1,214.03		
	3.14	3rd A Main road sector A(Sri Nilayam)		1	135.00	7.30		985.50		
	3.16	5th A Main road sector A(Near Netaji Park)		1	110.00	5.70		627.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	4.80		268.80		
							Total	10,344.63	5.30	54,826.55
9	Page No.158, Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.04	14th A cross road A- sector	10%	1	255.00	7.36		187.80		
	3.05	13th A cross road A- sector	10%	1	155.00	4.10		63.55		
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	136.00	5.00		680.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	2.00		112.00		
		For Bell mouth improvement		18	8.00	4.00		576.00		
							Total	1,619.35	33.92	54,928.35
10	Page No.158 Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.02	12th A cross road A- sector		1	86.00	5.80		498.80		
	3.03	12th cross road A- sector		1	150.00	4.20		630.00		
	3.04	14th A cross road A- sector		1	255.00	7.36		1,878.00		
	3.05	13th A cross road A- sector		1	155.00	4.10		635.50		
	3.07	10th A cross road A- sector		1	170.00	7.00		1,190.00		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	290.00	6.56		1,901.00		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1	120.00	4.30		516.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		1	178.80	6.79		1,214.03		
	3.14	3rd A Main road sector A(Sri Nilayam)		1	135.00	7.30		985.50		
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	136.00	5.00		680.00		
	3.16	5th A Main road sector A(Near Netaji Park)		1	110.00	5.70		627.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	6.80		380.80		
		For Bell mouth improvement		18	8.00	4.00		576.00		
							Total	11,712.63	12.72	148,984.68
11	Page No.160, Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.02	12th A cross road A- sector	10%	1	86.00	5.80	0.05	2.49		
	3.03	12th cross road A- sector	10%	1	150.00	4.20	0.05	3.15		
	3.04	14th A cross road A- sector	10%	1	255.00	7.36	0.05	9.39		
	3.05	13th A cross road A- sector	10%	1	155.00	4.10	0.05	3.18		
	3.07	10th A cross road A- sector	10%	1	170.00	7.00	0.05	5.95		
	3.10	7th A cross road sector A(Towards Netaji Park)	10%	1	290.00	6.56	0.05	9.51		
	3.11	5th A cross road A sector A(Towards Netaji Park)	10%	1	120.00	4.30	0.05	2.58		
	3.12	4th A cross road A sector(Towards Netaji Park)	10%	1	178.80	6.79	0.05	6.07		
	3.14	3rd A Main road sector A(Sri Nilayam)	10%	1	135.00	7.30	0.05	4.93		
	3.15	4th A Main road sector A(Raj Residency opposite road)	100%	1	136.00	5.00	0.05	34.00		
	3.16	5th A Main road sector A(Near Netaji Park)	10%	1	110.00	5.70	0.05	3.14		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)	10%	1	56.00	6.80	0.05	1.90		
		For Bell mouth improvement		18	8.00	4.00	0.05	28.80		
							Total	115.08	7,620.34	876,972.80
12	Page No. 171, Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	3.02	12th A cross road A- sector		1	86.00	5.80	0.04	19.95		
	3.03	12th cross road A- sector		1	150.00	4.20	0.04			
	3.04	14th A cross road A- sector		1	255.00					

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	3.05	13th A cross road A- sector		1	155.00	4.10	0.04	25.42		
	3.07	10th A cross road A- sector		1	170.00	7.00	0.04	47.60		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	290.00	6.56	0.04	76.04		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1	120.00	4.30	0.04	20.64		
	3.12	4th A cross road A sector(Towards Netaji Park)		1	178.80	6.79	0.04	48.56		
	3.14	3rd A Main road sector A(Sri Nilayam)		1	135.00	7.30	0.04	39.42		
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	136.00	5.00	0.03	20.40		
	3.16	5th A Main road sector A(Near Netaji Park)		1	110.00	5.70	0.04	25.08		
	3.18	No 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	6.80	0.04	15.23		
		For Bell mouth improvement		18	8.00	4.00	0.04	23.04		
							Total	461.71	8,699.42	4,016,568.12
13	Page No.187, Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals.								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	3.02	12th A cross road A- sector		2	5.80			12.00		
	3.03	12th cross road A- sector		2	4.20			9.00		
	3.04	14th A cross road A- sector		2	7.36			15.00		
	3.05	13th A cross road A- sector		2	4.10			9.00		
	3.06	11th A cross road A- sector		2	5.92			12.00		
	3.07	10th A cross road A- sector		2	7.00			14.00		
	3.10	7th A cross road sector A(Towards Netaji Park)		2	6.56			14.00		
	3.11	5th A cross road A sector A(Towards Netaji Park)		2	4.30			9.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		2	6.79			14.00		
	3.14	3rd A Main road sector A(Sri Nilayam)		2	7.30			15.00		
	3.15	4th A Main road sector A(Raj Residency opposite road)		2	5.00			10.00		
	3.16	5th A Main road sector A(Near Netaji Park)		2	5.70			12.00		
	3.17	11th A Main road(Near Netaji Park)		2	5.67			12.00		
	3.18	No 336(Deepali House Opposite Road)(Aster Clinic)		2	6.80			14.00		
							Total	171.00	357.22	61,084.62
14	Page No.182, Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface.- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	3.02	12th A cross road A- sector		1	86.00	0.10		2.87		
	3.04	14th A cross road A- sector		1	255.00	0.10		8.50		
	3.07	10th A cross road A- sector		1	170.00	0.10		5.67		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	290.00	0.10		9.67		
	3.12	4th A cross road A sector(Towards Netaji Park)		1	178.80	0.10		5.96		
	3.14	3rd A Main road sector A(Sri Nilayam)		1	135.00	0.10		4.50		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	56.00	2.10		39.20		
		Edge Line								
	3.02	12th A cross road A- sector		2	86.00	0.15		25.80		
	3.03	12th cross road A- sector		2	150.00	0.15		45.00		
	3.04	14th A cross road A- sector		2	255.00	0.15		76.50		
	3.05	13th A cross road A- sector		2	155.00	0.15		46.50		
	3.07	10th A cross road A- sector		2	170.00	0.15		51.00		
	3.10	7th A cross road sector A(Towards Netaji Park)		2	290.00	0.15		87.00		
	3.11	5th A cross road A sector A(Towards Netaji Park)		2	120.00	0.15		36.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		2	178.80	0.15		53.64		
	3.14	3rd A Main road sector A(Sri Nilayam)		2	135.00	0.15		40.50		
	3.15	4th A Main road sector A(Raj Residency opposite road)		2	136.00	0.15		40.80		
	3.16	5th A Main road sector A(Near Netaji Park)		2	110.00	0.15		33.00		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		2	56.00	2.15		240.80		
							Total	852.90	454.74	387,847.75

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
15	Page No.190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.02	12th A cross road A- sector		1	1.60	0.90		1.44		
	3.03	12th cross road A- sector		1	1.60	0.90		1.44		
	3.04	14th A cross road A- sector		1	1.60	0.90		1.44		
	3.05	13th A cross road A- sector		1	1.60	0.90		1.44		
	3.07	10th A cross road A- sector		1	1.60	0.90		1.44		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	1.60	0.90		1.44		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1	1.60	0.90		1.44		
	3.12	4th A cross road A sector(Towards Netaji Park)		1	1.60	0.90		1.44		
	3.14	3rd A Main road sector A(Sri Nilayam)		1	1.60	0.90		1.44		
	3.15	4th A Main road sector A(Raj Residency opposite road)		1	1.60	0.90		1.44		
	3.16	5th A Main road sector A(Near Netaji Park)		1	1.60	0.90		1.44		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		1	1.60	0.90		1.44		
							Total	17.28	14,094.82	243,558.49
16	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	3.02	12th A cross road A- sector		2				2.00		
	3.03	12th cross road A- sector		2				2.00		
	3.04	14th A cross road A- sector		4				4.00		
	3.05	13th A cross road A- sector		2				2.00		
	3.07	10th A cross road A- sector		1				1.00		
	3.11	5th A cross road A sector A(Towards Netaji Park)		2				2.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		4				4.00		
	3.14	3rd A Main road sector A(Sri Nilayam)		2				2.00		
	3.15	4th A Main road sector A(Raj Residency opposite road)		4				4.00		
	3.16	5th A Main road sector A(Near Netaji Park)		1				1.00		
							Total	24.00	2,203.74	52,889.76
17	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. Including cost of materials, labour, HOM complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	3.02	12th A cross road A- sector		2	2.83	0.15	0.10	0.08		
	3.03	12th cross road A- sector		2	2.83	0.15	0.10	0.08		
	3.04	14th A cross road A- sector		4	2.83	0.15	0.10	0.17		
	3.05	13th A cross road A- sector		2	2.83	0.15	0.10	0.08		
	3.07	10th A cross road A- sector		1	2.83	0.15	0.10	0.04		
	3.11	5th A cross road A sector A(Towards Netaji Park)		2	2.83	0.15	0.10	0.08		
	3.12	4th A cross road A sector(Towards Netaji Park)		4	2.83	0.15	0.10	0.17		
	3.14	3rd A Main road sector A(Sri Nilayam)		2	2.83	0.15	0.10	0.08		
	3.15	4th A Main road sector A(Raj Residency opposite road)		4	2.83	0.15	0.10	0.17		
	3.16	5th A Main road sector A(Near Netaji Park)		1	2.83	0.15	0.10	0.04		
							Total	1.02	7,273.72	7,399.99
18	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		For Road Excavation								
		For Dismantling of BT, Granular layers						178.20		
		Dismantling of Masonry,						1,604.00		
		Dismantling of Kerbs						23.44		
								45.13		
							Total	1,850.77	60.42	111,823.68
19	Page No.136 Item No.17.4	KSRRB M100-4.1: Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		For Road Excavation								
		For Dismantling of BT, Granular layers						2,737.15		
		Dismantling of Masonry,						25,022.40		
								365.66		

Detailed Quantity Estimate for Road and allied Works
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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Dismantling of Kerbs						704.07		
							Total	28,829.29	2.12	61,118.09
		Footpath Improvements								
20	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	3.02	12th A cross road A- sector	20%	2.00	86.00	0.20	0.10	0.69		
	3.03	12th cross road A- sector	20%	2.00	150.00	0.20	0.10	1.20		
	3.07	10th A cross road A- sector	80%	1.00	170.00	0.20	0.10	2.72		
	3.10	7th A cross road sector A(Towards Netaji Park)	20%	2.00	290.00	0.20	0.10	2.32		
	3.11	5th A cross road A sector A(Towards Netaji Park)	30%	2.00	120.00	0.20	0.10	1.44		
	3.12	4th A cross road A sector(Towards Netaji Park)	10%	2.00	178.80	0.20	0.10	0.72		
	3.16	5th A Main road sector A(Near Netaji Park)	50%	2.00	110.00	0.20	0.10	2.20		
							Total	11.28	4,479.56	50,543.77
21	Page No.27. Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	3.02	12th A cross road A- sector	20%	2.00	86.00			76.44		
	3.03	12th cross road A- sector	20%	2.00	150.00			133.33		
	3.07	10th A cross road A- sector	80%	1.00	170.00			302.22		
	3.10	7th A cross road sector A(Towards Netaji Park)	20%	2.00	290.00			257.78		
	3.11	5th A cross road A sector A(Towards Netaji Park)	30%	2.00	120.00			160.00		
	3.12	4th A cross road A sector(Towards Netaji Park)	10%	2.00	178.80			79.47		
	3.16	5th A Main road sector A(Near Netaji Park)	50%	2.00	110.00			244.44		
							Total	1,253.69	432.48	542,195.37
22	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	3.02	12th A cross road A- sector	30%	2	86.00			51.60		
	3.03	12th cross road A- sector	20%	2	150.00			60.00		
	3.10	7th A cross road sector A(Towards Netaji Park)	20%	2	290.00			116.00		
	3.12	4th A cross road A sector(Towards Netaji Park)	30%	2	178.80			107.28		
	3.16	5th A Main road sector A(Near Netaji Park)	30%	2	110.00			66.00		
							Total	400.88	104.94	42,068.35
23	Page No.180 Item No.24.1	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.02	12th A cross road A- sector	50%	2	86.00	0.27		22.79		
	3.03	12th cross road A- sector	40%	2	150.00	0.27		31.80		
	3.07	10th A cross road A- sector	80%	1	170.00	0.27		36.04		
	3.10	7th A cross road sector A(Towards Netaji Park)	40%	2	290.00	0.27		61.48		
	3.11	5th A cross road A sector A(Towards Netaji Park)	30%	2	120.00	0.27		19.08		
	3.12	4th A cross road A sector(Towards Netaji Park)	40%	2	178.80	0.27		37.91		
	3.16	5th A Main road sector A(Near Netaji Park)	80%	2	110.00	0.27		46.64		
							Total	255.74	84.80	21,686.38
24	Page No.147. Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc .. complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.07	10th A cross road A- sector	80%	1	170.00	1.00		136.00		
							Total	136.00	24.38	3,315.68
25	Page No. 155. Item No.20.18	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	3.07	10th A cross road A- sector	80%	1	170.00	1.00				
							0.20	27.20		
							Total	27.20	2,001.28	54,434.82
26	Page No.103. Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							

Detailed Quantity Estimate for Road and allied Works
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SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	3.07	10th A cross road A- sector	80%	1	170.00	1.00		136.00		
							Total	136.00	1,116.18	151,800.48
27	Page No.270 Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications, as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.02	12th A cross road A- sector	80%	2.00	86.00	1.10		151.36		
	3.03	12th cross road A- sector	80%	2.00	150.00	1.10		264.00		
	3.04	14th A cross road A- sector	50%	2.00	255.00	1.10		280.50		
	3.05	13th A cross road A- sector	60%	2.00	155.00	1.10		204.60		
	3.07	10th A cross road A- sector	40%	1.00	170.00	1.10		74.80		
	3.10	7th A cross road sector A(Towards Netaji Park)	70%	2.00	290.00	1.10		446.60		
	3.11	5th A cross road A sector A(Towards Netaji Park)	65%	2.00	120.00	1.10		171.60		
	3.12	4th A cross road A sector(Towards Netaji Park)	50%	2.00	178.80	1.10		196.68		
	3.14	3rd A Main road sector A(Sri Nilayam)	80%	2.00	135.00	1.10		237.60		
	3.15	4th A Main road sector A(Raj Residency opposite road)	80%	2.00	136.00	1.10		239.36		
	3.16	5th A Main road sector A(Near Netaji Park)	70%	2.00	110.00	1.10		169.40		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)	73%	2.00	56.00	1.10		89.94		
							Total	2,526.44	208.82	527,570.37
		Drain Improvements								
28	Page No 143 Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	3.02	12th A cross road A- sector		2	86.00	0.60	0.30	30.96		
	3.03	12th cross road A- sector		2	150.00	0.60	0.30	54.00		
	3.04	14th A cross road A- sector		2	255.00	0.60	0.30	91.80		
	3.05	13th A cross road A- sector		2	155.00	0.60	0.30	55.80		
	3.07	10th A cross road A- sector		2	170.00	0.60	0.30	61.20		
	3.10	7th A cross road sector A(Towards Netaji Park)		2	290.00	0.60	0.30	104.40		
	3.11	5th A cross road A sector A(Towards Netaji Park)		2	120.00	0.60	0.30	43.20		
	3.12	4th A cross road A sector(Towards Netaji Park)		2	178.80	0.60	0.30	64.37		
	3.14	3rd A Main road sector A(Sri Nilayam)		2	135.00	0.60	0.30	48.60		
	3.15	4th A Main road sector A(Raj Residency opposite road)		2	136.00	0.60	0.30	48.96		
	3.16	5th A Main road sector A(Near Netaji Park)		2	110.00	0.60	0.30	39.60		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)		2	56.00	0.60	0.30	20.16		
		For Cross culvert								
	3.02	12th A cross road A- sector		1	6.00	1.70	1.00	10.20		
	3.03	12th cross road A- sector		1	5.00	1.70	1.00	8.50		
	3.04	14th A cross road A- sector		1	7.00	1.70	1.00	11.90		
	3.05	13th A cross road A- sector		1	5.50	1.70	1.00	9.35		
	3.07	10th A cross road A- sector		1	5.50	1.70	1.00	9.35		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	7.00	1.70	1.00	11.90		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1	5.00	1.70	1.00	8.50		
	3.12	4th A cross road A sector(Towards Netaji Park)		2	7.50	1.70	1.00	25.50		
	3.16	5th A Main road sector A(Near Netaji Park)		1	6.00	1.70	1.00	10.20		
		50% reduction for Culvert opening						(52.70)		
							Total	715.75	137.80	98,630.07
29	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	3.02	12th A cross road A- sector		1.00	6.00	1.80	0.10	1.08		
	3.03	12th cross road A- sector		1.00	5.00	1.80	0.10	0.90		
	3.04	14th A cross road A- sector		1.00	7.00	2.00	0.10	1.40		
	3.05	13th A cross road A- sector		1.00	5.50	1.80	0.10	0.99		
	3.07	10th A cross road A- sector		1.00	5.50	1.80	0.10	0.99		
	3.10	7th A cross road sector A(Towards Netaji Park)		1.00	7.00	2.00	0.10	1.40		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1.00	5.00	2.00	0.10	1.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		2.00	7.50	1.80	0.10	2.70		
	3.16	5th A Main road sector A(Near Netaji Park)		1.00	6.00	1.80	0.10	1.08		
							Total	11.54	4,479.56	51,694.12
30	Page No.229 Item No.28.8.2	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	3.02	12th A cross road A- sector			1.08	@90 Kg/Cum Concrete		0.10		
	3.03	12th cross road A- sector			0.90	@90 Kg/Cum Concrete		0.08		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	3.04	14th A cross road A- sector			1.40	@90 Kg/Cum Concrete		0.13		
	3.05	13th A cross road A- sector			0.99	@90 Kg/Cum Concrete		0.09		
	3.07	10th A cross road A- sector			0.99	@90 Kg/Cum Concrete		0.09		
	3.10	7th A cross road sector A(Towards Netaji Park)			1.40	@90 Kg/Cum Concrete		0.13		
	3.11	5th A cross road A sector A(Towards Netaji Park)			1.00	@90 Kg/Cum Concrete		0.09		
	3.12	4th A cross road A sector(Towards Netaji Park)			2.70	@90 Kg/Cum Concrete		0.24		
	3.16	5th A Main road sector A(Near Netaji Park)			1.08	@90 Kg/Cum Concrete		0.10		
							Total	1.04	72,326.98	75,118.80
31	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Walls								
		For Chute Drains		38.00	1.61	0.10		6.12		
		For Cross culvert								
		Culvert Bottom slab								
	3.02	12th A cross road A- sector		1	6.00	1.80	0.20	2.16		
	3.03	12th cross road A- sector		1	5.00	1.80	0.20	1.80		
	3.04	14th A cross road A- sector		1	7.00	2.00	0.20	2.80		
	3.05	13th A cross road A- sector		1	5.50	1.80	0.20	1.98		
	3.07	10th A cross road A- sector		1	5.50	1.80	0.20	1.98		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	7.00	2.00	0.20	2.80		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1	5.00	2.00	0.20	2.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		2	7.50	1.80	0.20	5.40		
	3.16	5th A Main road sector A(Near Netaji Park)		1	6.00	1.80	0.20	2.16		
		Culvert side walls								
	3.02	12th A cross road A- sector		2	6.00	0.20	0.90	2.16		
	3.03	12th cross road A- sector		2	5.00	0.20	0.90	1.80		
	3.04	14th A cross road A- sector		2	7.00	0.20	0.90	2.52		
	3.05	13th A cross road A- sector		2	5.50	0.20	0.90	1.98		
	3.07	10th A cross road A- sector		2	5.50	0.20	0.90	1.98		
	3.10	7th A cross road sector A(Towards Netaji Park)		2	7.00	0.20	0.90	2.52		
	3.11	5th A cross road A sector A(Towards Netaji Park)		2	5.00	0.20	0.90	1.80		
	3.12	4th A cross road A sector(Towards Netaji Park)		4	7.50	0.20	0.90	5.40		
	3.16	5th A Main road sector A(Near Netaji Park)		2	6.00	0.20	0.90	2.16		
							Total	51.52	7,070.20	364,242.56
32	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.02	12th A cross road A- sector	10%	2	86.00	1.10		18.92		
	3.03	12th cross road A- sector	10%	2	150.00	1.10		33.00		
	3.04	14th A cross road A- sector	40%	2	255.00	1.10		224.40		
	3.05	13th A cross road A- sector	30%	2	155.00	1.10		102.30		
	3.07	10th A cross road A- sector	50%	2	170.00	1.10		187.00		
	3.10	7th A cross road sector A(Towards Netaji Park)	4%	2	290.00	1.10		22.33		
	3.11	5th A cross road A sector A(Towards Netaji Park)	25%	2	120.00	1.10		66.00		
	3.12	4th A cross road A sector(Towards Netaji Park)	22%	2	178.80	1.10		86.54		
	3.14	3rd A Main road sector A(Sri Nilayam)	10%	2	135.00	1.10		29.70		
	3.15	4th A Main road sector A(Raj Residency opposite road)	10%	2	136.00	1.10		29.92		
	3.16	5th A Main road sector A(Near Netaji Park)	20%	2	110.00	1.10		48.40		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)	10%	2	56.00	1.10		12.32		
		For Chute Drain		38.00	1.61	1.10		67.30		
							Total	928.13	2,337.00	2,169,033.27
33	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	3.02	12th A cross road A- sector		1	6.00	1.80		10.80		
	3.03	12th cross road A- sector		1	5.00	1.80		9.00		
	3.04	14th A cross road A- sector		1	7.00	2.00		14.00		
	3.05	13th A cross road A- sector		1	5.50	1.80		9.90		
	3.07	10th A cross road A- sector		1	5.50	1.80		9.90		
	3.10	7th A cross road sector A(Towards Netaji Park)		1	7.00	2.00		14.00		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1	5.00	2.00		10.00		
	3.12	4th A cross road A sector(Towards Netaji Park)		2	7.50	1.80		27.00		
	3.16	5th A Main road sector A(Near Netaji Park)		1	6.00	1.80		10.80		
							Total	115.40	5,418.00	625,237.20
34	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1 :3)								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	3.02	12th A cross road A- sector	5%	1	86.00	1.20		5.16		
	3.03	12th cross road A- sector	5%	1	150.00	1.20		9.00		
	3.04	14th A cross road A- sector	5%	1	255.00	1.20		15.30		
	3.05	13th A cross road A- sector	5%	1	155.00	1.20		9.30		
	3.07	10th A cross road A- sector	5%	1	170.00	1.20		10.20		
	3.10	7th A cross road sector A(Towards Netaji Park)	5%	1	290.00	1.20		17.40		
	3.11	5th A cross road A sector A(Towards Netaji Park)	5%	1	120.00	1.20		7.20		
	3.12	4th A cross road A sector(Towards Netaji Park)	5%	1	178.80	1.20		10.73		
	3.14	3rd A Main road sector A(Sri Nilayam)	5%	1	135.00	1.20		8.10		
	3.15	4th A Main road sector A(Raj Residency opposite road)	5%	1	136.00	1.20		8.16		
	3.16	5th A Main road sector A(Near Netaji Park)	5%	1	110.00	1.20		6.60		
	3.18	No. 336(Deepali House Opposite Road)(Aster Clinic)	5%	1	56.00	1.20		3.36		
							Total	110.51	105.00	11,603.34
		Dismantling and miscellaneous items								
35	Page No.139 Item No.18.26	KSRRB M200-15.1 Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Culverts								
	3.02	12th A cross road A- sector		1.00	5.80	0.40	1.00	2.32		
	3.03	12th cross road A- sector		1.00	4.20	0.40	1.00	1.68		
	3.04	14th A cross road A- sector		1.00	7.36	0.40	1.00	2.95		
	3.05	13th A cross road A- sector		1.00	4.10	0.40	1.00	1.64		
	3.07	10th A cross road A- sector		1.00	7.00	0.40	1.00	2.80		
	3.10	7th A cross road sector A(Towards Netaji Park)		1.00	6.56	0.40	1.00	2.62		
	3.11	5th A cross road A sector A(Towards Netaji Park)		1.00	4.30	0.40	1.00	1.72		
	3.12	4th A cross road A sector(Towards Netaji Park)		2.00	6.79	0.40	1.00	5.43		
	3.16	5th A Main road sector A(Near Netaji Park)		1.00	5.70	0.40	1.00	2.28		
							Total	23.44	308.34	7,180.57
36	Page No.141 Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	m							
	3.02	12th A cross road A- sector	20%	2.00	86.00			34.40		
	3.03	12th cross road A- sector	20%	2.00	150.00			60.00		
	3.07	10th A cross road A- sector	80%	1.00	170.00			136.00		
	3.10	7th A cross road sector A(Towards Netaji Park)	20%	2.00	290.00			116.00		
	3.11	5th A cross road A sector A(Towards Netaji Park)	30%	2.00	120.00			72.00		
	3.12	4th A cross road A sector(Towards Netaji Park)	10%	2.00	178.80			35.76		
	3.16	5th A Main road sector A(Near Netaji Park)	50%	2.00	110.00			110.00		
							Total	564.16	12.72	7,176.12
		Rain Water Harvesting								
37		KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)								
		For New Drain Portion	Cum	2	0.31176495		1.80	1.12		
								1.12	137.80	154.66
38		Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
		a) 40mm Jelly.		2	0.31176495		0.40	0.25	1,901.00	474.13
					(3.142*0.63*0.63)/4					
		b) 20mm Jelly.	Cum	2	0.31176495		0.40	0.25	1,901.00	474.13
		c) Coarse sand.	Cum	2	0.31176495		0.30	0.19	2,651.00	495.89
		d) Fine Sand	Cum	2	0.31176495		0.20	0.12	2,651.00	330.60
		e) 12.5mm chips	Cum	2	0.31176495		0.30	0.19	1,901.00	355.60
39		Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
		0.63m dia HDPE Perforated Pipe For 1.8 Mtr depth.	Rmt	3.6				3.60		
								3.60	10,822.32	38,960.36

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
40		Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
			Sqm	2	0.31176495			0.62		
								0.62	71.03	44.29
									Total Construction cost	12,069,041.40
									GST 12%	1,448,284.97
									Design Report, Proof Checking & PMC Amount	241,380.83
									Tender Premium 5%	603,452.07
									Sub Total	14,361,760.93
									Miscellaneous & Round off	638,239.07
									Grand Total	15,000,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Executive Engineer,
Yalahanka Division, BBMP

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ಯಲಹಂಕ ಉಪನಗರ ಕಾರ್ಯವಿಭಾಗ,
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Executive Engineer,
Yalahanka Division,
BBMP

WORK NO 04: of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No.153 Item No.20.8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.08	11th B cross road B sector(around Sir M V Park)		7	7.00	0.30	0.15	2.21		
							Total	2.21	1,855.00	4,090.28
2	Page No. 155. Item No.20.18	KSRRB M400-17 Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.07	10th B cross road B sector(around Sir M V Park)	10%	1	190.00	7.00	0.23	29.93		
	4.08	11th B cross road B sector(around Sir M V Park)	15%	1	130.00	7.00	0.23	30.71		
	4.09	13th B cross road B sector(around Sir M V Park)	15%	1	145.00	6.20	0.23	30.34		
	4.11	15th B cross road B sector(around Sir M V Park)	15%	1	310.00	6.60	0.23	69.05		
		For Bell Mouth portion		11	8.00	4.00	0.15	52.80		
	3.08	9th A cross road sector A(Towards Netaji Park)	10%	1	440.00	6.68	0.23	68.13		
							Total	278.96	2,001.28	558,274.57
3	Page No.158. Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	Opposite Shri Sai Yelahanka orthopedic center		1	72.00	3.75		270.00		
	4.02	8th B main road B sector(opposite to Move Fresh agro)		1	69.00	3.80		262.20		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)		1	24.00	3.50		84.00		
	4.04	2nd B Main Road B sector		1	52.00	2.80		145.60		
	4.05	1st 'B' main road B sector		1	87.00	5.10		443.70		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		1	101.00	8.50		858.50		
	4.07	10th B cross road B sector(around Sir M V Park)		1	190.00	7.00		1,330.00		
	4.08	11th B cross road B sector(around Sir M V Park)		1	130.00	7.00		910.00		
	4.09	13th B cross road B sector(around Sir M V Park)		1	145.00	6.20		899.00		
	4.10	14th B cross road B sector(around Sir M V Park)		1	200.00	6.50		1,300.00		
	4.11	15th B cross road B sector(around Sir M V Park)		1	310.00	6.60		2,046.00		
	3.08	9th A cross road sector A(Towards Netaji Park)		1	440.00	6.68		2,939.00		
							Total	11,488.00	5.30	60,886.40
4	Page No.158. Item No.21.6	KSRRB M500-6 Providing and applying primer coat with S S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.08	11th B cross road B sector(around Sir M V Park)	5%	1	130.00	2.00		13.00		
	4.09	13th B cross road B sector(around Sir M V Park)	5%	1	145.00	6.20		44.95		
	4.11	15th B cross road B sector(around Sir M V Park)	5%	1	310.00	6.60		102.30		
		For Bell Mouth portion		11	8.00	4.00		352.00		
							Total	512.25	33.92	17,375.52
5	Page No.158. Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	Opposite Shri Sai Yelahanka orthopedic center		1	72.00	3.75		270.00		
	4.02	8th B main road B sector(opposite to Move Fresh agro)		1	69.00	3.80		262.20		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)		1	24.00	3.50		84.00		
	4.04	2nd B Main Road B sector		1	52.00	2.80		145.60		
	4.05	1st 'B' main road B sector		1	87.00	5.10		443.70		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		1	101.00	8.50		858.50		
	4.07	10th B cross road B sector(around Sir M V Park)		1	190.00	7.00		1,330.00		
	4.08	11th B cross road B sector(around Sir M V Park)		1	130.00	7.00		955.50		
	4.09	13th B cross road B sector(around Sir M V Park)		1	145.00	6.20		943.95		
	4.10	14th B cross road B sector(around Sir M V Park)		1	200.00	6.50		1,300.00		
	4.11	15th B cross road B sector(around Sir M V Park)		1	310.00	6.60		2,046.00		
		For Bell Mouth portion		11	8.00	4.00		352.00		
	3.08	9th A cross road sector A(Towards Netaji Park)		1	440.00	6.68		2,939.00		
							Total	11,930.45	12.72	151,755.32

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
6	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	Opposite Shri Sai Yelahanka orthopedic center	5%	1	72.00	3.75	0.05	0.68		
	4.02	8th B main road B sector(opposite to Move Fresh agro)	5%	1	69.00	3.80	0.05	0.66		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)	10%	1	24.00	3.50	0.05	0.42		
	4.04	2nd B Main Road B sector	10%	1	52.00	2.80	0.05	0.73		
	4.05	1st 'B' main road B sector	10%	1	87.00	5.10	0.05	2.22		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)	10%	1	101.00	8.50	0.05	4.29		
	4.07	10th B cross road B sector(around Sir M V Park)	10%	1	190.00	7.00	0.05	6.65		
	4.08	11th B cross road B sector(around Sir M V Park)	10%	1	130.00	7.00	0.05	4.55		
	4.09	13th B cross road B sector(around Sir M V Park)	10%	1	145.00	6.20	0.05	4.50		
	4.10	14th B cross road B sector(around Sir M V Park)	10%	1	200.00	6.50	0.05	6.50		
	4.11	15th B cross road B sector(around Sir M V Park)	10%	1	310.00	6.60	0.05	10.23		
		For Bell Mouth portion		11	8.00	4.00	0.05	17.60		
	3.08	9th A cross road sector A(Towards Netaji Park)	10%	1	440.00	6.68	0.05	14.70		
							Total	73.71	7,620.34	561,691.45
7	Page No. 171. Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.01	Opposite Shri Sai Yelahanka orthopedic center		1	72.00	3.75	0.04	10.80		
	4.02	8th B main road B sector(opposite to Move Fresh agro)		1	69.00	3.80	0.04	10.49		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)		1	24.00	3.50	0.04	3.36		
	4.04	2nd B Main Road B sector		1	52.00	2.80	0.04	5.82		
	4.05	1st 'B' main road B sector		1	87.00	5.10	0.04	17.75		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		1	101.00	8.50	0.04	34.34		
	4.07	10th B cross road B sector(around Sir M V Park)		1	190.00	7.00	0.04	53.20		
	4.08	11th B cross road B sector(around Sir M V Park)		1	130.00	7.00	0.04	36.40		
	4.09	13th B cross road B sector(around Sir M V Park)		1	145.00	6.20	0.04	35.96		
	4.10	14th B cross road B sector(around Sir M V Park)		1	200.00	6.50	0.04	52.00		
	4.11	15th B cross road B sector(around Sir M V Park)		1	310.00	6.60	0.04	81.84		
		For Bell Mouth portion		11	8.00	4.00	0.04	14.08		
	3.08	9th A cross road sector A(Towards Netaji Park)		1	440.00	6.68	0.04	117.56		
							Total	473.60	8,699.42	4,120,045.31
8	Page No.187. Item No.24.41	KSRRB M800 Road markers/Road stud. KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	4.01	Opposite Shri Sai Yelahanka orthopedic center		2	3.75			8.00		
	4.02	8th B main road B sector(opposite to Move Fresh agro)		2	3.80			8.00		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)		2	3.50			7.00		
	4.04	2nd B Main Road B sector		2	2.80			6.00		
	4.05	1st 'B' main road B sector		2	5.10			11.00		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		2	8.50			17.00		
	4.07	10th B cross road B sector(around Sir M V Park)		2	7.00			14.00		
	4.08	11th B cross road B sector(around Sir M V Park)		2	7.00			14.00		
	4.09	13th B cross road B sector(around Sir M V Park)		2	6.20			13.00		
	4.10	14th B cross road B sector(around Sir M V Park)		2	6.50			13.00		
	4.11	15th B cross road B sector(around Sir M V Park)		2	6.60			14.00		
	3.08	9th A cross road sector A(Towards Netaji Park)		2	6.68			14.00		
							Total	139.00	357.22	49,653.58

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
g	Page No.182, Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
		Centre Line								
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		1	101.00	0.10		3.37		
	4.07	10th B cross road B sector(around Sir M V Park)		1	190.00	0.10		6.33		
	4.08	11th B cross road B sector(around Sir M V Park)		1	130.00	0.10		4.33		
	4.09	13th B cross road B sector(around Sir M V Park)		1	145.00	0.10		4.83		
	4.10	14th B cross road B sector(around Sir M V Park)		1	200.00	0.10		6.67		
	4.11	15th B cross road B sector(around Sir M V Park)		1	310.00	0.10		10.33		
	3.08	9th A cross road sector A(Towards Netaji Park)		1	440.00	0.10		14.67		
		Edge Line								
	4.01	Opposite Shri Sai Yelahanka orthopedic center		2	72.00	0.15		21.60		
	4.02	8th B main road B sector(opposite to Move Fresh agro)		2	69.00	0.15		20.70		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)		2	24.00	0.15		7.20		
	4.04	2nd B Main Road B sector		2	52.00	0.15		15.60		
	4.05	1st 'B' main road B sector		2	87.00	0.15		26.10		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		2	101.00	0.15		30.30		
	4.07	10th B cross road B sector(around Sir M V Park)		2	190.00	0.15		57.00		
	4.08	11th B cross road B sector(around Sir M V Park)		2	130.00	0.15		39.00		
	4.09	13th B cross road B sector(around Sir M V Park)		2	145.00	0.15		43.50		
	4.10	14th B cross road B sector(around Sir M V Park)		2	200.00	0.15		60.00		
	4.11	15th B cross road B sector(around Sir M V Park)		2	310.00	0.15		93.00		
	3.08	9th A cross road sector A(Towards Netaji Park)		2	440.00	0.15		132.00		
							Total	596.53	454.74	271,267.57
10	Page No.190, Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	4.01	Opposite Shri Sai Yelahanka orthopedic center		1	1.60	0.90		1.44		
	4.02	8th B main road B sector(opposite to Move Fresh agro)		1	1.60	0.90		1.44		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)		1	1.60	0.90		1.44		
	4.04	2nd B Main Road B sector		1	1.60	0.90		1.44		
	4.05	1st 'B' main road B sector		1	1.60	0.90		1.44		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		1	1.60	0.90		1.44		
	4.07	10th B cross road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	4.08	11th B cross road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	4.09	13th B cross road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	4.10	14th B cross road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	4.11	15th B cross road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	3.08	9th A cross road sector A(Towards Netaji Park)		1	1.60	0.90		1.44		
							Total	17.28	14,094.82	243,558.49
11	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy								
		KUWS&DB SR 2018-19	No.							
	4.07	10th B cross road B sector(around Sir M V Park)		1						
	4.08	11th B cross road B sector(around Sir M V Park)		2				1.00		
	4.10	14th B cross road B sector(around Sir M V Park)		2				2.00		
	4.11	15th B cross road B sector(around Sir M V Park)		4				2.00		
	3.08	9th A cross road sector A(Towards Netaji Park)		5				4.00		
								5.00		
							Total	14.00	2,203.74	30,852.36
12	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR.2018-19	Cum							
		For Manhole Raising								
	4.07	10th B cross road B sector(around Sir M V Park)		1	2.83	0.15	0.10	0.04		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	4.08	11th B cross road B sector(around Sir M V Park)		2	2.83	0.15	0.10	0.08		
	4.10	14th B cross road B sector(around Sir M V Park)		2	2.83	0.15	0.10	0.08		
	4.11	15th B cross road B sector(around Sir M V Park)		4	2.83	0.15	0.10	0.17		
	3.08	9th A cross road sector A(Towards Netaji Park)		5	2.83	0.15	0.10	0.21		
							Total	0.59	7,273.72	4,316.66
13	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates ISand/ Kanker J Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		Dismantling of Masonry.						5.20		
		Dismantling of Kerbs						104.93		
							Total	110.13	60.42	6,653.93
14	Page No.136 Item No.17.4	KSRRB M100-4 1. Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		Dismantling of Masonry.						81.12		
		Dismantling of Kerbs						1,636.88		
							Total	1,718.00	2.12	3,642.15
		Footpath Improvements								
15	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	4.03	Below Kerb Stone	20%	2.00	24.00	0.20	0.10	0.19		
	4.04	3rd B main Road 'B' Sector(opposite HIG1253)	50%	2.00	52.00	0.20	0.10	1.04		
	4.07	2nd B Main Road B sector	40%	2.00	190.00	0.20	0.10	3.04		
	4.08	10th B cross road B sector(around Sir M V Park)	20%	2.00	130.00	0.20	0.10	1.04		
	4.09	11th B cross road B sector(around Sir M V Park)	20%	2.00	145.00	0.20	0.10	1.16		
	4.10	13th B cross road B sector(around Sir M V Park)	40%	2.00	200.00	0.20	0.10	3.20		
	4.11	14th B cross road B sector(around Sir M V Park)	20%	2.00	310.00	0.20	0.10	2.48		
	3.08	9th A cross road sector A(Towards Netaji Park)	80%	2.00	440.00	0.20	0.10	14.08		
							Total	26.23	4,479.56	117,507.82
16	Page No.27 Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C C 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)	20%	2.00	24.00			21.33		
	4.04	2nd B Main Road B sector	50%	2.00	52.00			115.56		
	4.07	10th B cross road B sector(around Sir M V Park)	40%	2.00	190.00			337.78		
	4.08	11th B cross road B sector(around Sir M V Park)	20%	2.00	130.00			115.56		
	4.09	13th B cross road B sector(around Sir M V Park)	20%	2.00	145.00			128.89		
	4.10	14th B cross road B sector(around Sir M V Park)	40%	2.00	200.00			355.56		
	4.11	15th B cross road B sector(around Sir M V Park)	20%	2.00	310.00			275.56		
	3.08	9th A cross road sector A(Towards Netaji Park)	80%	2.00	440.00			1,564.44		
							Total	2,914.67	432.48	1,260,535.04
17	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)	40%	2	24.00			19.20		
	4.04	2nd B Main Road B sector	50%	2	52.00			52.00		
	4.07	10th B cross road B sector(around Sir M V Park)	20%	2	190.00			76.00		
	4.08	11th B cross road B sector(around Sir M V Park)	40%	2	130.00			104.00		
	4.09	13th B cross road B sector(around Sir M V Park)	40%	2	145.00			116.00		
	4.10	14th B cross road B sector(around Sir M V Park)	20%	2	200.00			80.00		
	4.11	15th B cross road B sector(around Sir M V Park)	20%	2	310.00			124.00		
							Total	571.20	104.94	59,941.73
18	Page No.180 Item No.24.1	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)	60%	2						
	4.04	2nd B Main Road B sector	100%	2	24.00	0.27		7.63		
	4.07	10th B cross road B sector(around Sir M V Park)	60%	2	52.00	0.27		27.56		
	4.08	11th B cross road B sector(around Sir M V Park)	60%	2	190.00	0.27		60.42		
	4.09	13th B cross road B sector(around Sir M V Park)	60%	2	130.00	0.27		41.34		
	4.10	14th B cross road B sector(around Sir M V Park)	60%	2	145.00	0.27		46.11		
	4.11	15th B cross road B sector(around Sir M V Park)	40%	2	200.00	0.27		63.60		
	3.08	9th A cross road sector A(Towards Netaji Park)	80%	2	310.00	0.27		65.72		
					440.00	0.27		186.56		
							Total	498.94	84.80	42,310.28

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
19	Page No.147, Item No.19.66	KSRRB M300-59.2 Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc .. complete as per specifications. MORTH Specification No. 305.3.4								
	3.08	PWP &IWTD, South Zone SR 2018-19	Sqm							
		9th A cross road sector A(Towards Netaji Park)	80%	2	440.00	1.50		1,056.00		
							Total	1,056.00		
20	Page No. 155 Item No.20.18	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
	3.08	PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
		9th A cross road sector A(Towards Netaji Park)	80%	2	440.00	1.50	0.20	211.20		
							Total	211.20		
21	Page No.103, Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
	3.08	PWP &IWTD, South Zone, SR:2018-19	Sqm							
		9th A cross road sector A(Towards Netaji Park)	80%	2	440.00	1.50		1,056.00		
							Total	1,056.00		
22	Page No.270, Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
	4.01	PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.02	Opposite Shri Sai Yelahanka orthopedic center	85%	2.00	72.00	1.10		134.64		
	4.03	8th B main road B sector(opposite to Move Fresh agro)	85%	2.00	69.00	1.10		129.03		
	4.04	3rd B main Road 'B' Sector(opposite HIG1253)	80%	2.00	24.00	1.10		42.24		
	4.05	2nd B Main Road B sector	80%	2.00	52.00	1.10		91.52		
	4.06	1st 'B' main road B sector	70%	2.00	87.00	1.10		133.98		
	4.07	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)	85%	2.00	101.00	1.10		188.87		
	4.08	10th B cross road B sector(around Sir M V Park)	60%	2.00	190.00	1.10		250.80		
	4.09	11th B cross road B sector(around Sir M V Park)	65%	2.00	130.00	1.10		185.90		
	4.10	13th B cross road B sector(around Sir M V Park)	70%	2.00	145.00	1.10		223.30		
	4.11	14th B cross road B sector(around Sir M V Park)	70%	2.00	200.00	1.10		308.00		
	3.08	15th B cross road B sector(around Sir M V Park)	65%	2.00	310.00	1.10		443.30		
		9th A cross road sector A(Towards Netaji Park)	60%	2.00	440.00	1.50		792.00		
							Total	2,923.58	208.82	610,501.98
		Drain Improvements								
23	Page No.143, Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	4.01	Opposite Shri Sai Yelahanka orthopedic center		2	72.00	0.60	0.20	17.28		
	4.02	8th B main road B sector(opposite to Move Fresh agro)		2	69.00	0.60	0.20	16.56		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)		2	24.00	0.60	0.20	5.76		
	4.04	2nd B Main Road B sector		2	52.00	0.60	0.20	12.48		
	4.05	1st 'B' main road B sector		2	87.00	0.60	0.20	20.88		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)		2	101.00	0.60	0.20	24.24		
	4.07	10th B cross road B sector(around Sir M V Park)		2	190.00	0.60	0.20	45.60		
	4.08	11th B cross road B sector(around Sir M V Park)		2	130.00	0.60	0.20	31.20		
	4.09	13th B cross road B sector(around Sir M V Park)		2	145.00	0.60	0.20	34.80		
	4.10	14th B cross road B sector(around Sir M V Park)		2	200.00	0.60	0.20	48.00		
	4.11	15th B cross road B sector(around Sir M V Park)		2	310.00	0.60	0.20	74.40		
	3.08	9th A cross road sector A(Towards Netaji Park)		2	440.00	0.60	0.30	158.40		
		For Cross culvert								
	4.04	2nd B Main Road B sector		1	5.50	1.80	1.00	9.90		
	4.07	10th B cross road B sector(around Sir M V Park)		1	7.50	1.30	1.00	9.75		
		50% reduction for Culvert opening						(9.83)		
							Total	499.43	137.80	68,820.77

Detailed Quantity Estimate for Road and allied Works
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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
24	Page No.254 Item No.34.1	KSRRB M2900-1 Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	4.04	2nd B Main Road B sector		1.00	5.50	1.80	0.10	0.99		
	4.07	10th B cross road B sector(around Sir M V Park)		1.00	7.50	1.30	0.10	0.98		
							Total	**1.97**	**4,479.56**	**8,802.34**
25	Page No.229 Item No.28.8.2	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	4.04	2nd B Main Road B sector			0.99	@90 Kg/Cum Concrete		0.09		
	4.07	10th B cross road B sector(around Sir M V Park)			0.98	@90 Kg/Cum Concrete		0.09		
							Total	**0.18**	**72,326.98**	**12,791.03**
26	Page No.270. Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
		Culvert Bottom slab								
	4.04	2nd B Main Road B sector		1	5.50	1.70	0.20	1.87		
	4.07	10th B cross road B sector(around Sir M V Park)		1	7.50	1.70	0.20	2.55		
	4.04	2nd B Main Road B sector		2	5.50	0.20	0.90	1.98		
	4.07	10th B cross road B sector(around Sir M V Park)		2	7.50	0.20	0.90	2.70		
							Total	**9.10**	**7,070.20**	**64,338.82**
27	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	Opposite Shri Sai Yelahanka orthopedic center	5%	2	72.00	1.10		7.92		
	4.02	8th B main road B sector(opposite to Move Fresh agro)	5%	2	69.00	1.10		7.59		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)	10%	2	24.00	1.10		5.28		
	4.04	2nd B Main Road B sector	10%	2	52.00	1.10		11.44		
	4.05	1st 'B' main road B sector	20%	2	87.00	1.10		38.28		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)	5%	2	101.00	1.10		11.11		
	4.07	10th B cross road B sector(around Sir M V Park)	30%	2	190.00	1.10		125.40		
	4.08	11th B cross road B sector(around Sir M V Park)	25%	2	130.00	1.10		71.50		
	4.09	13th B cross road B sector(around Sir M V Park)	20%	2	145.00	1.10		63.80		
	4.10	14th B cross road B sector(around Sir M V Park)	20%	2	200.00	1.10		88.00		
	4.11	15th B cross road B sector(around Sir M V Park)	25%	2	310.00	1.10		170.50		
	3.08	9th A cross road sector A(Towards Netaji Park)	30%	2	440.00	1.10		290.40		
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	8%	2	348.00	1.20		62.64		
							Total	**953.86**	**2,337.00**	**2,229,170.82**
28	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	4.04	2nd B Main Road B sector		1	5.50	1.80		9.90		
	4.07	10th B cross road B sector(around Sir M V Park)		1	7.50	1.30		9.75		
							Total	**19.65**	**5,418.00**	**106,463.70**
29	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C M (1 :3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	4.01	Opposite Shri Sai Yelahanka orthopedic center	5%	2	72.00	0.90		129.60		
	4.02	8th B main road B sector(opposite to Move Fresh agro)	5%	2	69.00	0.90		124.20		
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)	5%	2	24.00	0.90		43.20		
	4.04	2nd B Main Road B sector	5%	2	52.00	0.90		93.60		
	4.05	1st 'B' main road B sector	5%	2	87.00	0.90		156.60		
	4.06	Connecting 14th B and 16th B Cross B Sector(Behind Shankarnag Park)	5%	2	101.00	0.90		181.80		

Detailed Quantity Estimate for Road and allied Works
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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	4.07	10th B cross road B sector(around Sir M V Park)	5%	2	190.00	0.90		342.00		
	4.08	11th B cross road B sector(around Sir M V Park)	5%	2	130.00	0.90		234.00		
	4.09	13th B cross road B sector(around Sir M V Park)	5%	2	145.00	0.90		261.00		
	4.10	14th B cross road B sector(around Sir M V Park)	5%	2	200.00	0.90		360.00		
	4.11	15th B cross road B sector(around Sir M V Park)	5%	2	310.00	0.90		558.00		
	3.08	9th A cross road sector A(Towards Netaji Park)	5%	1	440.00	1.20		26.40		
							Total	2,510.40	105.00	263,592.00
		Dismantling and miscellaneous Items								
30	Page No.139, Item No.18.26	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications, as directed by the Engineer,with all lead and lift etc. complete as per specifications as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Culverts								
	4.04	2nd B Main Road B sector		1.00	5.50	0.40	1.00	2.20		
	4.07	10th B cross road B sector(around Sir M V Park)		1.00	7.50	0.40	1.00	3.00		
							Total	5.20	306.34	1,592.97
31	Page No.141, Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	m							
	4.03	3rd B main Road 'B' Sector(opposite HIG1253)	20%	2.00	24.00			9.60		
	4.04	2nd B Main Road B sector	50%	2.00	52.00			52.00		
	4.07	10th B cross road B sector(around Sir M V Park)	40%	2.00	190.00			152.00		
	4.08	11th B cross road B sector(around Sir M V Park)	20%	2.00	130.00			52.00		
	4.09	13th B cross road B sector(around Sir M V Park)	20%	2.00	145.00			58.00		
	4.10	14th B cross road B sector(around Sir M V Park)	40%	2.00	200.00			160.00		
	4.11	15th B cross road B sector(around Sir M V Park)	20%	2.00	310.00			124.00		
	3.08	9th A cross road sector A(Towards Netaji Park)	80%	2.00	440.00			704.00		
							Total	1,311.60	12.72	16,683.55
		Rain Water Harvesting								
32		KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)								
		For New Drain Portion	Cum	1	0.31176495			1.80	0.56	
									0.56	137.80 77.33
33		Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
		a) 40mm Jelly		1	0.31176495			0.40	0.12	1,901.00 237.07
					(3.142*0.63*0.63)/4					
		b) 20mm Jelly	Cum	1	0.31176495			0.40	0.12	1,901.00 237.07
		c) Coarse sand.	Cum	1	0.31176495			0.30	0.09	2,651.00 247.95
		d) Fine Sand	Cum	1	0.31176495			0.20	0.06	2,651.00 165.30
		e) 12.5mm chips	Cum	1	0.31176495			0.30	0.09	1,901.00 177.80
34		Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6 0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,	Rmt	1.8				1.80		
								1.80	10,822.32	19,480.18

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
35		Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
			Sqm	1	0.31176495			0.31		
								0.31	71.03	22.14
									Total Construction cost	10,967,761.26
									GST 12%	1,316,131.35
									Design Report, Proof Checking & PMC Amount	219,355.23
									Tender Premium 5%	548,388.06
									Sub Total	13,051,635.89
									Miscellaneous & Round off	17,409.13
									Grand Total	13,069,045.02

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Infra Support Engineering Consultants Pvt. Ltd.

Assistant Engineer
Yalahanka Division, BBMP

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Assistant Executive Engineer
Yalahanka Division,
BBMP

Executive Engineer
Yalahanka Division,
BBMP

WORK NO 05 : of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No.147 Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc complete as per specifications MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1	310.00	5.00		1,550.00		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1	44.00	3.00		132.00		
	5.06	3rd A Cross Road,Chikkabommasandra		1	193.00	4.90		945.70		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		1	32.70	4.00		130.80		
	5.11	3rd Main Road(B Sector)		1	70.00	0.50		35.00		
	5.12	1st 'B' Main Road(B Sector)3rd Phase		1	55.00	3.20		176.00		
	5.13	Cross Road Connecting 1st B main Road & 2nd B Main Road(Rajakumari Nilaya,#1333)		1	65.00	3.00		195.00		
	5.14	Around Park Road 1(sangollirayanna Park)		1	31.60	3.40		107.44		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	30.30	0.50		15.15		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		1	160.00	4.20		672.00		
	5.17	Rd (Anand Nilaya) opposite to Anjaneya Temple Allalasandra		1	40.00	2.20		88.00		
							Total	4,047.09	24.38	98,668.05
2	Page No.143 Item No.19.14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications, MORTH Specification No.301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.06	3rd A Cross Road,Chikkabommasandra		1	193.00	4.90	0.25	236.43		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		1	32.70	4.00	0.25	32.70		
	5.11	3rd Main Road(B Sector)		1	70.00	0.50	0.25	8.75		
	5.13	Cross Road Connecting 1st B main Road & 2nd B Main Road(Rajakumari Nilaya,#1333)		1	65.00	3.00	0.25	48.75		
	5.14	Around Park Road 1(sangollirayanna Park)		1	31.60	3.40	0.25	26.86		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	30.30	0.50	0.25	3.79		
							0.25	357.27	43.48	15,527.08
3	Page No.144 Item No 19.20	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications, MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.06	3rd A Cross Road,Chikkabommasandra		1		212.78		212.78		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		1		29.43		29.43		
	5.11	3rd Main Road(B Sector)		1		7.88		7.88		
	5.13	Cross Road Connecting 1st B main Road & 2nd B Main Road(Rajakumari Nilaya,#1333)		1		43.88		43.88		
	5.14	Around Park Road 1(sangollirayanna Park)		1		24.17		24.17		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1		3.41		3.41		
							Total	321.55	34.98	11,247.65
4	Page No. 155 Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.06	3rd A Cross Road,Chikkabommasandra		1	193.00	0.50	0.10	9.65		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		1	32.70	0.50	0.10	1.64		
	5.11	3rd Main Road(B Sector)		1	70.00	0.50	0.10	3.50		
	5.13	Cross Road Connecting 1st B main Road & 2nd B Main Road(Rajakumari Nilaya,#1333)		1	65.00	0.50	0.10	3.25		
	5.14	Around Park Road 1(sangollirayanna Park)		1	31.60	0.50	0.10	1.58		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	30.30	0.50	0.10	1.52		
							Total	21.13	2,001.28	42,287.05
5	Page No.158 Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		1	365.00	6.40		2,336.00		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	0.00	1.00	295.00	6.20		1,829.00		
							Total	4,165.00	5.30	22,074.50

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
6	Page No.158 Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		1	365.00	6.40		2,336.00		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1	295.00	6.20		1,829.00		
		For Bell mouth improvement		0	8.00	4.00		-		
							Total	4,165.00	12.72	52,978.80
7	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	10%	1	365.00	6.40	0.05	11.68		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	10%	1	295.00	6.20	0.05	9.15		
		For Bell mouth improvement		0	8.00	4.00	0.05	-		
							Total	20.83	7,620.34	158,693.58
8	Page No. 171 Item No.21.78 12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		1	365.00	6.40	0.04	93.44		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	0.00	1.00	295.00	6.20	0.04	73.16		
		For Bell mouth improvement		0	8.00	4.00	0.04	-		
							Total	166.60	8,699.42	1,449,323.37
9	Page No 174 Item No.22.1 1	KSRRB M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS. 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and IS 456 Table-5 22.1.1 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with Slip form paver with electronic sensor.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1	310.00	5.00	0.10	155.00		
	5.12	1st 'B' Main Road(B Sector)3rd Phase		1	55.00	3.20	0.10	17.60		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		1	160.00	4.20	0.10	67.20		
	5.17	Rd (Anand Nilaya) opposite to Anjaneya Temple Allalasandra		1	40.00	2.20	0.10	8.80		
							Total	248.60	3,800.10	944,704.86
10	*Page No.176. Item No.22.6.1*	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1	310.00	5.00	0.15	232.50		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1	44.00	3.00	0.15	19.80		
	5.06	3rd A Cross Road,Chikkabommasandra		1	193.00	4.90	0.15	141.86		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		1	32.70	4.00	0.15	19.62		
	5.11	3rd Main Road(B Sector)		1	70.00	0.50	0.15	5.25		
	5.12	1st 'B' Main Road(B Sector)3rd Phase		1	55.00	3.20	0.15	26.40		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	5.13	Cross Road Connecting 1st B main Road & 2nd B Main Road(Rajakumari Nilaya #1333)		1	65.00	3.00	0.15	29.25		
	5.14	Around Park Road 1(sangollirayanna Park)		1	31.60	3.40	0.15	16.12		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	30.30	0.50	0.15	2.27		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		1	160.00	4.20	0.15	100.80		
	5.17	Rd (Anand Nilaya) opposite to Anjaneya Temple Allalasandra		1	40.00	2.20	0.15	13.20		
							Total	607.06	5,210.96	3,163,383.62
11	Page No.187, Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals.								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		2	6.40			13.00		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		2	6.20			13.00		
							Total	26.00	357.22	9,287.72
12	Page No.182, Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface.- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		1	365.00	0.10		12.17		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1	295.00	0.10		9.83		
		Edge Line								
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		2	365.00	0.15		109.50		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		2	295.00	0.15		88.50		
							Total	220.00	454.74	100,042.80
13	Page No.124, Item No.15.80	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete I masonry I asbestos cement sheet I plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease,dirt and other foreign matter, and sand papering including cost ofmaterials, labour, complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Edge Line								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	310.00	0.15		93.00		
	5.02	2rd A Cross road,Chikkabommasandra		2	200.00	0.15		60.00		
	5.03	1st Main Road,B R Ambedkar Nagar		2	187.00	0.15		56.10		
	5.05	1st A Main Road,Chikkabommasandra		2	58.00	0.15		17.40		
	5.06	3rd A Cross Road,Chikkabommasandra		2	193.00	0.15		57.90		
	5.07	Connecting 2nd A Cross & 3rd A cross road		2	50.00	0.15		15.00		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		2	32.70	0.15		9.81		
	5.11	3rd Main Road(B Sector)		2	70.00	0.15		21.00		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		2	160.00	0.15		48.00		
	5.19	Rd beside Mathruchaya (#27) Allalasandra		2	140.00	3.15		882.00		
	5.20	Rd beside Sri Veerabhadreshwara Kripa(#84) Allalasandra		2	100.00	4.15		830.00		
	5.22	Last Rd beside Transformer Allalasandra		2	100.00	6.15		1,230.00		
							Total	3,320.21	39.22	130,218.64
14	Page No.124, Item No.15.82	KSRB 15-19.2 : Providing and applying spray painting (excluding priming coat) over concrete I masonry I asbestos cement sheet I plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter,and sand papering including cost of materials, labour,complete as perspecifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Edge Line								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	310.00	0.15		93.00		
	5.02	2rd A Cross road,Chikkabommasandra		2	200.00	0.15		60.00		
	5.03	1st Main Road,B R Ambedkar Nagar		2	187.00	0.15		56.10		
	5.05	1st A Main Road,Chikkabommasandra		2	58.00	0.15		17.40		
	5.06	3rd A Cross Road,Chikkabommasandra		2	193.00	0.15		57.90		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	5.07	Connecting 2nd A Cross & 3rd A cross road		2	50.00	0.15		15.00		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		2	32.70	0.15		9.81		
	5.11	3rd Main Road(B Sector)		2	70.00	0.15		21.00		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		2	160.00	0.15		48.00		
	5.19	Rd beside Mathruchaya (#27) Allalasandra		2	140.00	3.15		882.00		
	5.20	Rd beside Sri Veerabhadreshwara Kripa(#84) Allalasandra		2	100.00	4.15		830.00		
	5.22	Last Rd beside Transformer Allalasandra		2	100.00	6.15		1,230.00		
							Total	3,320.21	58.30	193,568.24
15	Page No.190, Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956-09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1	1.60	0.90		1.44		
	5.02	2rd A Cross road,Chikkabommasandra		1	1.60	0.90		1.44		
	5.03	1st Main Road,B R Ambedkar Nagar		1	1.60	0.90		1.44		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1	1.60	0.90		1.44		
	5.05	1st A Main Road,Chikkabommasandra		1	1.60	0.90		1.44		
	5.06	3rd A Cross Road,Chikkabommasandra		1	1.60	0.90		1.44		
	5.07	Connecting 2nd A Cross & 3rd A cross road		1	1.60	0.90		1.44		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		1	1.60	0.90		1.44		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		1	1.60	0.90		1.44		
	5.10	3rd 'B' Main Road (Sree Rama Banana Mandi) B Sector 3rd Phase		1	1.60	0.90		1.44		
	5.11	3rd Main Road(B Sector)		1	1.60	0.90		1.44		
	5.12	1st 'B' Main Road(B Sector)3rd Phase		1	1.60	0.90		1.44		
	5.13	Cross Road Connecting 1st B main Road & 2nd B Main Road(Rajakumari Nilaya,#1333)		1	1.60	0.90		1.44		
	5.14	Around Park Road 1(sangollirayanna Park)		1	1.60	0.90		1.44		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	1.60	0.90		1.44		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		1	1.60	0.90		1.44		
	5.17	Rd (Anand Nilaya) opposite to Anjaneya Temple Allalasandra		1	1.60	0.90		1.44		
	5.18	1st main Road beside Public Library Allalasandra		1	1.60	0.90		1.44		
	5.19	Rd beside Mathruchaya (#27) Allalasandra		1	1.60	0.90		1.44		
	5.20	Rd beside Sri Veerabhadreshwara Kripa(#84) Allalasandra		1	1.60	0.90		1.44		
	5.21	Rd beside Sree Veerabhadra swamy Nilaya opposite to Lalitha ladies Tailor Allalasandra		1	1.60	0.90		1.44		
	5.22	Last Rd beside Transformer Allalasandra		1	1.60	0.90		1.44		
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		1	1.60	0.90		1.44		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1	1.60	0.90		1.44		
								1.44		
							Total	34.56	14,094.82	487,116.98
16	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		5				5.00		
	5.02	2rd A Cross road,Chikkabommasandra		6				6.00		
	5.03	1st Main Road,B R Ambedkar Nagar		2				2.00		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1				1.00		
	5.05	1st A Main Road,Chikkabommasandra		1				1.00		
	5.06	3rd A Cross Road,Chikkabommasandra		4				4.00		
	5.07	Connecting 2nd A Cross & 3rd A cross road		2				2.00		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		2				2.00		
	5.10	3rd 'B' Main Road (Sree Rama Banana Mandi) B Sector 3rd Phase		1				1.00		
	5.11	3rd Main Road(B Sector)		1				1.00		
	5.12	1st 'B' Main Road(B Sector)3rd Phase		1				1.00		
	5.14	Around Park Road 1(sangollirayanna Park)		1				1.00		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		8				8.00		
	5.17	Rd (Anand Nilaya) opposite to Anjaneya Temple Allalasandra		2				2.00		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	5.18	1st main Road beside Public Library Allalasandra		3				3.00		
	5.19	Rd beside Mathruchaya (#27) Allalasandra		1				1.00		
	5.22	Last Rd beside Transformer Allalasandra		2				2.00		
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		1				1.00		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		4				4.00		
							Total	48.00	2,203.74	105,779.52
17	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		5	2.83	0.15	0.10	0.21		
	5.02	2rd A Cross road,Chikkabommasandra		6	2.83	0.15	0.10	0.25		
	5.03	1st Main Road,B R Ambedkar Nagar		2	2.83	0.15	0.10	0.08		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1	2.83	0.15	0.10	0.04		
	5.05	1st A Main Road,Chikkabommasandra		1	2.83	0.15	0.10	0.04		
	5.06	3rd A Cross Road,Chikkabommasandra		4	2.83	0.15	0.10	0.17		
	5.07	Connecting 2nd A Cross & 3rd A cross road		2	2.83	0.15	0.10	0.08		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		2	2.83	0.15	0.10	0.08		
	5.10	3rd 'B' Main Road (Sree Rama Banana Mandi) B Sector 3rd Phase		1	2.83	0.15	0.10	0.04		
	5.11	3rd Main Road(B Sector)		1	2.83	0.15	0.10	0.04		
	5.12	1st 'B' Main Road(B Sector)3rd Phase		1	2.83	0.15	0.10	0.04		
	5.14	Around Park Road 1(sangolirayanna Park)		1	2.83	0.15	0.10	0.04		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		8	2.83	0.15	0.10	0.34		
	5.17	Rd (Anand Nilaya) opposite to Anjaneya Temple Allalasandra		2	2.83	0.15	0.10	0.08		
	5.18	1st main Road beside Public Library Allalasandra		3	2.83	0.15	0.10	0.13		
	5.19	Rd beside Mathruchaya (#27) Allalasandra		1	2.83	0.15	0.10	0.04		
	5.22	Last Rd beside Transformer Allalasandra		2	2.83	0.15	0.10	0.08		
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		1	2.83	0.15	0.10	0.04		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		4	2.83	0.15	0.10	0.17		
							Total	2.03	7,273.72	14,799.98
18	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker J Moorum. KSRRB M100-1 .Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		For Road Excavation						357.27		
		Dismantling of Concrete						804.14		
		Stone Slabs.						100.59		
							Total	1,293.24	60.42	78,137.59
19	Page No.136 Item No.17.4	KSRRB M100-4.1. Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1. Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		For Road Excavation						5,487.71		
		Dismantling of Concrete						12,544.55		
		Stone Slabs.						2,172.74		
							Total	20,692.35	2.12	43,867.77
		Footpath Improvements								
20	Page No.13 Item No.4.7	KSRB 4-1.7 : Providing and laying in position plain cement concrete of Mix 1 :3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	25%	2.00	365.00	0.20	0.10	3.65		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	30%	2.00	295.00	0.20	0.10	3.54		
							Total	7.19	4,479.56	32,208.04
21	Page No.27. Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	25%	2	365.00			405.56		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	30%	2	295.00			393.33		

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
22	Page No.270, Item No.37.57	Removing and resetting of kerb stones					Total	798.89	432.48	345,503.47
		PWP &IWTD, South Zone, SR:2018-19	m							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	30%	2	365.00			219.00		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	20%	2	295.00			118.00		
23	Page No.180, Item No.24.1	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8					Total	337.00	104.94	35,364.78
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	55%	2	365.00	0.27		106.40		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	50%	2	295.00	0.27		78.18		
24	Page No.147, Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment / subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment / subgrade including HOM construction, labour etc ., complete as per specifications. MORTH Specification No. 305.3.4					Total	184.57	84.80	15,651.75
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		2	365.00	0.50		365.00		
25	Page No. 155, Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.					Total	365.00	24.38	8,898.70
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		2	365.00	0.50	0.20	73.00		
26	Page No.103, Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS					Total	73.00	2,001.28	146,093.44
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		2	365.00	0.50		365.00		
27	Page No.270, Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.					Total	365.00	1,116.18	407,405.70
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	0.65	2.00	365.00	1.10		521.95		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	0.50	2.00	295.00	1.10		324.50		
							Total	846.45	208.82	176,755.69
		Drain Improvements								
28	Page No.143, Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Work								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	310.00	0.45	0.10	27.90		
	5.02	2rd A Cross road,Chikkabommasandra		2	200.00	0.65	0.65	169.00		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		1	68.00	0.45	0.10	3.06		
	5.18	1st main Road beside Public Library Allalasandra		2	130.00	0.65	0.65	109.85		
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)		2	365.00	0.60	0.20	87.60		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		2	295.00	0.60	0.30	106.20		
		40% reduction for drain opening						(123.92)		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		For Cross culvert								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1	5.00	1.50	0.80	6.00		
	5.02	2rd A Cross road,Chikkabommasandra		4	4.20	1.50	0.80	20.16		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1	7.00	1.50	0.80	8.40		
	5.06	3rd A Cross Road,Chikkabommasandra		4	7.00	1.50	0.80	33.60		
	5.14	Around Park Road 1(sangollirayanna Park)		1	7.00	1.50	0.80	8.40		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	7.00	1.50	0.80	8.40		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		2	7.00	1.50	0.80	16.80		
	5.18	1st main Road beside Public Library Allalasandra		1	7.00	1.50	0.80	8.40		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1	7.50	1.70	1.00	12.75		
		50% reduction for Culvert opening						(57.26)		
							Total	**445.34**	**137.80**	**61,367.99**
29	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		Drain Work								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	115.00	0.65	0.10	14.95		
	5.02	2rd A Cross road,Chikkabommasandra		2	200.00	0.65	0.10	26.00		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		1	68.00	0.45	0.10	3.06		
	5.18	1st main Road beside Public Library Allalasandra		2	130.00	0.65	0.10	16.90		
		For Cross culvert								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1.00	5.00	1.50	0.10	0.75		
	5.02	2rd A Cross road,Chikkabommasandra		4.00	4.20	1.50	0.10	2.52		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1.00	7.00	1.50	0.10	1.05		
	5.06	3rd A Cross Road,Chikkabommasandra		4.00	7.00	1.50	0.10	4.20		
	5.14	Around Park Road 1(sangollirayanna Park)		1.00	7.00	1.50	0.10	1.05		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1.00	7.00	1.50	0.10	1.05		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		2.00	7.00	1.50	0.10	2.10		
	5.18	1st main Road beside Public Library Allalasandra		1.00	7.00	1.50	0.10	1.05		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1.00	7.50	2.00	0.10	1.50		
							Total	**76.18**	**4,479.56**	**341,252.88**
30	Page No.229 Item No.28.8.2	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	**Tonns**							
		Drain Work		**Concrete in Cum**						
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)			14.95	@60 Kg/Cum Concrete		0.90		
	5.02	2rd A Cross road,Chikkabommasandra			26.00	@60 Kg/Cum Concrete		1.56		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka			3.06	@60 Kg/Cum Concrete		0.18		
	5.18	1st main Road beside Public Library Allalasandra			16.90	@60 Kg/Cum Concrete		1.01		
		For Cross culvert								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)			0.75	@90 Kg/Cum Concrete		0.07		
	5.02	2rd A Cross road,Chikkabommasandra			2.52	@90 Kg/Cum Concrete		0.23		
	5.04	Existing 3rd B Main Road (From Map 4th B)			1.05	@90 Kg/Cum Concrete		0.09		
	5.06	3rd A Cross Road,Chikkabommasandra			4.20	@90 Kg/Cum Concrete		0.38		
	5.14	Around Park Road 1(sangollirayanna Park)			1.05	@90 Kg/Cum Concrete		0.09		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)			1.05	@90 Kg/Cum Concrete		0.09		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale			2.10	@90 Kg/Cum Concrete		0.19		
	5.18	1st main Road beside Public Library Allalasandra			1.05	@90 Kg/Cum Concrete		0.09		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)			1.50	@90 Kg/Cum Concrete		0.14		
							Total	**5.03**	**72,326.98**	**363,725.15**

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
31	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR.2018-19	Cum							
		Drain Bottom Slab								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	115.00	0.65	0.10	14.95		
	5.02	2rd A Cross road,Chikkabommasandra		2	200.00	0.65	0.10	26.00		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		1	68.00	0.65	0.10	4.42		
	5.18	1st main Road beside Public Library Allalasandra		2	130.00	0.65	0.10	16.90		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1	7.50	2.00	0.20	3.00		
		Drain Walls								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		4	115.00	0.10	0.45	20.70		
	5.02	2rd A Cross road,Chikkabommasandra		4	200.00	0.10	0.45	36.00		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		2	68.00	0.10	0.45	6.12		
	5.18	1st main Road beside Public Library Allalasandra		4	130.00	0.10	0.45	23.40		
		For Cross culvert								
		Culvert Bottom slab								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1	5.00	1.50	0.20	1.50		
	5.02	2rd A Cross road,Chikkabommasandra		4	4.20	1.50	0.20	5.04		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1	7.00	1.50	0.20	2.10		
	5.06	3rd A Cross Road,Chikkabommasandra		4	7.00	1.50	0.20	8.40		
	5.14	Around Park Road 1(sangollirayanna Park)		1	7.00	1.50	0.20	2.10		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	7.00	1.50	0.20	2.10		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		2	7.00	1.50	0.20	4.20		
	5.18	1st main Road beside Public Library Allalasandra		1	7.00	1.50	0.20	2.10		
		Culvert side walls								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	5.00	0.20	0.70	1.40		
	5.02	2rd A Cross road,Chikkabommasandra		8	4.20	0.20	0.70	4.70		
	5.04	Existing 3rd B Main Road (From Map 4th B)		2	7.00	0.20	0.70	1.96		
	5.06	3rd A Cross Road,Chikkabommasandra		8	7.00	0.20	0.70	7.84		
	5.14	Around Park Road 1(sangollirayanna Park)		2	7.00	0.20	0.70	1.96		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		2	7.00	0.20	0.70	1.96		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		4	7.00	0.20	0.70	3.92		
	5.18	1st main Road beside Public Library Allalasandra		2	7.00	0.20	0.70	1.96		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		2	7.50	0.20	0.90	2.70		
							Total	207.43	7,070.20	1,466,599.87
32	Page No.27 Item No.5.32	Removing B.S. slab of Drain and stacking								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	115.00	1.05		241.50		
	5.02	2rd A Cross road,Chikkabommasandra		2	200.00	1.05		420.00		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		1	68.00	1.05		71.40		
	5.18	1st main Road beside Public Library Allalasandra		2	130.00	1.05		273.00		
							Total	1,005.90	104.94	105,559.15
33	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		2	115.00	0.65		149.50		
	5.02	2rd A Cross road,Chikkabommasandra		2	200.00	0.65		260.00		
	5.08	2nd B Main Road(Beside Apollo Pharma) B Sector 3rd Phase Yelahanka		1	68.00	0.65		44.20		
	5.18	1st main Road beside Public Library Allalasandra		2	130.00	0.65		169.00		
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	0.25	2.00	365.00	1.10		200.75		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	0.4	2.00	295.00	1.10		259.60		
	6.02	Road behind Navachethana hospital (beside green trends)	0.03	2.00	236.00	1.20		16.99		
							Total	1,100.04	2,337.00	2,570,798.15

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
34	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)		1.00	5.00	1.50		7.50		
	5.02	2rd A Cross road,Chikkabommasandra		4.00	4.20	1.50		25.20		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1.00	3.00	1.50		4.50		
	5.06	3rd A Cross Road,Chikkabommasandra		4.00	4.90	1.50		29.40		
	5.14	Around Park Road 1(sangollirayanna Park)		1.00	3.40	1.50		5.10		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1.00	3.20	1.50		4.80		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		2.00	4.20	1.50		12.60		
	5.18	1st main Road beside Public Library Allalasandra		1.00	3.20	1.50		4.80		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1.00	7.50	2.00		15.00		
							Total	108.90	5,418.00	590,020.20
35	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1:3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	0.05	1	365.00	0.90		328.50		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	0.05	1	295.00	1.20		17.70		
							Total	346.20	105.00	36,351.00
		Dismantling and miscellaneous Items								
36	Page No 139. Item No 18.26	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Drains								
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)		1.00	6.20	0.40	1.00	2.48		
							Total	2.48	306.34	759.72
37	Page No.141. Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	m							
	1.06	6th 'B' Main Road B Sector B(Kempegowda Park)	25%	2.00	365.00			182.50		
	3.13	2nd A Main road sector A(opp Jnana Jyothi School)	30%	2.00	295.00			177.00		
							Total	359.50	12.72	4,572.84
38	Page No.140 Item No 18.47	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, Bangalore Circle, SOR 2018-19								
	5.01	14th B cross road B sector-CC Road(around Shankarnag Park)	Cum	1	310.00	5.00	0.20	310.00		
	5.04	Existing 3rd B Main Road (From Map 4th B)		1	44.00	3.00	0.20	21.12		
	5.06	3rd A Cross Road,Chikkabommasandra		1	193.00	4.90	0.20	189.14		
	5.09	3rd A, 'B' Main Road (opposite samsung service center) B Sector 3rd Phase		1	32.70	4.00	0.20	26.16		
	5.11	3rd Main Road(B Sector)		1	70.00	0.50	0.20	7.00		
	5.12	1st 'B' Main Road(B Sector)3rd Phase		1	55.00	3.20	0.20	35.20		
	5.13	Cross Road Connecting 1st B main Road & 2nd B Main Road(Rajakumari Nilaya,#1333)		1	65.00	3.00	0.20	39.00		
	5.14	Around Park Road 1(sangollirayanna Park)		1	31.60	3.40	0.20	21.49		
	5.15	Around Park Road 2(Veerabhadra swamy Nilaya)		1	30.30	0.50	0.20	3.03		
	5.16	Road next to Indira Condiments opposite to Day by Day Fresh Wholesale		1	160.00	4.20	0.20	134.40		
	5.17	Rd (Anand Nilaya) opposite to Anjaneya Temple Allalasandra		1	40.00	2.20	0.20	17.60		
							Total	804.14	952.94	766,295.27
		Rain Water Harvesting								
39	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)									

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		For New Drain Portion	Cum	1	0.31		1.80	0.56		
								0.56	137.80	77.33
40	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.									
	a) 40mm Jelly.			1	0.31		0.40	0.12	1901.00	237.07
	b) 20mm Jelly.				(3.142*0.63*0.63)/4					
			Cum	1	0.31		0.40	0.12	1901.00	237.07
	c) Coarse sand		Cum	1	0.31		0.30	0.09	2651.00	247.95
	d) Fine Sand		Cum	1	0.31		0.20	0.06	2651.00	165.30
	e) 12.5mm chips		Cum	1	0.31		0.30	0.09	1901.00	177.80
41	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. **(Perforated Pipe for Rain Water Harvesting Pit)** (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)									
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,	Rmt	1.80				1.80		
								1.80	10822.32	19480.18
42	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.									
			Sqm	1	0.31			0.31		
								0.31	71.03	22.14
									Total Constuction Cost	14617536.40
									GST 12%	1754104.37
									Design Report, Proof Checking & PMC Amount 2 %	292350.73
									Tender Premium 5%	730876.82
									Sub Total	17394868.31
									Miscellaneous & Rounding Off	5131.69
									Grand Total	17400000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd.

Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer, Yalahanka Division, BBMP

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Assistant Executive Engineer, Yalahanka Division, BBMP

Executive Engineer, Yalahanka Division, BBMP

WORK NO 06 : of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs
		Carriageway Improvements								
1	Page No.158. Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		1	348.00	10.00		3,480.00		
	6.02	Road behind Navachethana hospital (beside green trends)		1	236.00	7.75		1,829.00		
							Total	5,309.00	5.30	28,137.70
2	Page No.158. Item No.21.7	KSRRB 500-7 Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		1	348.00	10.00		3,480.00		
	6.02	Road behind Navachethana hospital (beside green trends)		1	236.00	7.75		1,829.00		
		For Bell mouth improvement		2	8.00	4.00		64.00		
							Total	5,373.00	12.72	68,344.56
3	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	10%	1	348.00	10.00	0.05	17.40		
	6.02	Road behind Navachethana hospital (beside green trends)	10%	1	236.00	7.75	0.05	9.15		
		For Bell mouth improvement		2	8.00	4.00	0.05	3.20		
							Total	29.75	7,620.34	226,667.01
4	Page No. 171. Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		1	348.00	10.00	0.04	139.20		
	6.02	Road behind Navachethana hospital (beside green trends)		1	236.00	7.75	0.04	73.16		
		For Bell mouth improvement		2	8.00	4.00	0.04	2.56		
							Total	214.92	8,699.42	1,869,679.35
5	Page No.187. Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals.								
		PWP &IWTD, South Zone, SR:2018-19	Nos							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		2	10.00			20.00		
	6.02	Road behind Navachethana hospital (beside green trends)		2	7.75			16.00		
							Total	36.00	357.22	12,859.92
6	Page No.182. Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		Centre Line								

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		2	348.00	0.10		23.20		
	6.02	Road behind Navachethana hospital (beside green trends)		1	236.00	0.10		7.87		
		Edge Line								
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		2	348.00	0.15		104.40		
	6.02	Road behind Navachethana hospital (beside green trends)		2	236.00	0.15		70.80		
							Total	**206.27**	**454.74**	**93,797.70**
7	Page No.190, Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956- 09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	**Sqm**							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		2	1.60	0.90		2.88		
	6.02	Road behind Navachethana hospital (beside green trends)		2	1.60	0.90		2.88		
							Total	**5.76**	**14,094.82**	**81,186.16**
8	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	**No.**							
	6.02	Road behind Navachethana hospital (beside green trends)		6				6.00		
							Total	**6.00**	**2,203.74**	**13,222.44**
9	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		For Manhole Raising								
	6.02	Road behind Navachethana hospital (beside green trends)		6	2.83	0.15	0.10	0.25		
							Total	**0.25**	**7,273.72**	**1,850.00**
10	Page No.136, Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates ISand/ Kanker J Moorum KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19	**cum**							
		Dismantling of Masonry,						78.84		
		Dismantling of Kerbs						18.69		
							Total	**97.53**	**60.42**	**5,892.64**
11	Page No.136, Item No.17.4	KSRRB M100-4.1. Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1 Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	**t.km**							
		Dismantling of Masonry,						1,229.90		
		Dismantling of Kerbs						291.53		
							Total	**1,521.44**	**2.12**	**3,225.45**
		Footpath Improvements								
12	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		Below Kerb Stone								
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	**15%**	2.00	348.00	0.20	0.10	2.09		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs
	6.02	Road behind Navachethana hospital (beside green trends)	15%	2.00	236.00	0.20	0.10	1.42		
							Total	3.50	4,479.56	15,696.38
13	Page No.27. Item No 5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	15%	2	348.00			232.00		
	6.02	Road behind Navachethana hospital (beside green trends)	15%	2	236.00			157.33		
							Total	389.33	432.48	168,378.88
14	Page No.180. Item No.24.1	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		2	348.00	0.27		184.44		
	6.02	Road behind Navachethana hospital (beside green trends)		2	236.00	0.27		125.08		
							Total	309.52	84.80	26,247.30
15	Page No.147. Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc ... complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	10%	2	348.00	2.50		174.00		
	6.02	Road behind Navachethana hospital (beside green trends)	10%	2	236.00	1.20		56.64		
							Total	230.64	24.38	5,623.00
16	Page No. 155. Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	10%	2	348.00	2.50	0.20	34.80		
	6.02	Road behind Navachethana hospital (beside green trends)	10%	2	236.00	1.20	0.20	11.33		
							Total	46.13	2,001.28	92,315.04
17	Page No.103. Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	10%	2	348.00	2.50		174.00		
	6.02	Road behind Navachethana hospital (beside green trends)	10%	2	236.00	1.20		56.64		
							Total	230.64	1,116.18	257,435.76
18	Page No.270. Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	20%	2.00	348.00	2.50		348.00		
	6.02	Road behind Navachethana hospital (beside green trends)	10%	2.00	236.00	2.50		118.00		
							Total	466.00	208.82	97,310.12
		Drain Improvements								
19	Page No.143. Item No 19.1	KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs
		Drain Work (Desilting)								
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		2	348.00	0.60	0.60	250.56		
	6.02	Road behind Navachethana hospital (beside green trends)		2	236.00	0.60	0.60	169.92		
		60% reduction for drain opening								
							Total	**420.48**	**137.80**	**57,942.14**
20	Page No.270, Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		Drain Walls								
		For Chute Drains		10.00	3.53	0.10		3.53		
							Total	**3.53**	**7,070.20**	**24,957.81**
21	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	**Sqm**							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	**1%**	2	348.00	1.20		8.35		
	6.02	Road behind Navachethana hospital (beside green trends)	**5%**	2	236.00	1.20		28.32		
		For Chute Drain		10.00	3.53	0.40		14.12		
							Total	**50.79**	**2,337.00**	**118,700.90**
		Dismantling and miscellaneous items								
22	Page No.139, Item No.18.26	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		For Drains								
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic		2.00	348.00	0.45	0.15	46.98		
	6.02	Road behind Navachethana hospital (beside green trends)		2.00	236.00	0.45	0.15	31.86		
							Total	**78.84**	**306.34**	**24,151.85**
23	Page No.141, Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	**m**							
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	**20%**	2.00	348.00			139.20		
	6.02	Road behind Navachethana hospital (beside green trends)	**20%**	2.00	236.00			94.40		
							Total	**233.60**	**12.72**	**2,971.39**
		Rain Water Harvesting								
24	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)									
		For New Drain Portion	Cum	3	0.31		1.80	1.68		
								1.68	**137.80**	**231.99**
25	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.									
		a) 40mm Jelly.		3	0.31		0.40	0.37	**1901.00**	**711.20**
				(3.142*0.63*0.63)/4						
		b) 20mm Jelly.	Cum	3	0.31		0.40	0.37	**1901.00**	**711.20**
		c) Coarse sand.	Cum	3	0.31		0.30	0.28	**2651.00**	**743.84**
		d) Fine Sand	Cum	3	0.31		0.20	0.19	**2651.00**	**495.89**
		e) 12.5mm chips	Cum	3	0.31		0.30	0.28	**1901.00**	**533.40**

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs
26		Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for HDPE Grade PE80-PN6 0, 630 mm dia. **(Perforated Pipe for Rain Water Harvesting Pit)** (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,	Rmt	5.40				5.40		
								5.40	**10822.32**	**58440.54**
27		Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
			Sqm	3	0.31			0.94		
								0.94	**71.03**	**66.43**
									Total Constuction Cost	**3358527.99**
									GST 12%	**403023.36**
									Design Report, Proof Checking & PMC Amount 2 %	**67170.56**
									Tender Premium 5%	**167926.40**
									Sub Total	**3996648.31**
									Miscellaneous & Rounding Off	**3351.69**
									Grand Total	**4000000.00**

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

FOR
M/s. Infra Support Engineering Consultants
Pvt. Ltd.
BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. ★

Assistant Engineer,
Yalahanka Division, BBMP

Assistant Executive
Engineer,
Yalahanka Division,

Executive Engineer,
Yalahanka Division,
BBMP

WORK NO 07: of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No.138, Item No.18.11	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials, labour charges complete as per specifications MORT&H Chapter-2								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		1.00	15.00	1.00		15.00		
							Total	15.00	10.60	159.00
2	Page No.146, Item No.19.55	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1.00	75.00	5.80		435.00		
							Total	435.00	95.40	41,499.00
3	Page No.146, Item No.19.51	KSRRB 300-45. Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet / surface dressing and stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications.MORTH / Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1.00	75.00	5.80		435.00		
							Total	435.00	84.80	36,888.00
4	Page No.147, Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment / subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment / subgrade including HOM construction, labour etc., complete as per specifications, MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1.00	75.00	5.80		435.00		
							Total	435.00	24.38	10,605.30
5	Page No.143, Item No.19.14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	75.00	5.80	0.23	97.88		
							Total	97.88	43.46	4,253.65
6	Page No.144, Item No.19.20	KSRRB M300-19. Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications. MORTH Specification No. 301								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1		88.09		88.09		
							Total	88.09	34.98	3,081.30
7	Page No.153, Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	75.00	5.80	0.15	65.25		
							Total	65.25	1,855.00	121,038.75
8	Page No. 155, Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout	15%	1	100.00	6.00	0.23	20.25		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	75.00	5.80	0.23	97.88		
							Total	118.13	2,001.28	236,401.20
9	Page No.158, Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	PM enclave (beside maruthi suzuki) main road		1	157.00	7.60		1,193.20		
	7.02	1st main PM enclave		1	96.50	5.50		530.75		
	7.03	1st cross road PM enclave		1	68.80	5.00		344.00		
	7.04	2nd main PM enclave		1	46.00	6.90		317.40		
	7.05	3rd cross road PM enclave		1	79.40	5.90		468.46		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		1	210.00	5.30		1,113.00		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		1	45.00	5.00		225.00		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		1	40.00	5.70		228.00		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		1	100.00	6.00		600.00		
	7.10	5th main Rd GKVK Layout Allalasandra		1	50.00	7.00		350.00		
	7.11	Rd beside Amruth Clinic Allalasandra		1	150.00	7.40		1,110.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		1	320.00	6.60		2,112.00		
							Total	8,591.81	5.30	45,536.59
10	Page No.158 Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	PM enclave (beside maruthi suzuki) main road		1	157.00	7.60		1,193.20		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout	15%	1	100.00	6.00		90.00		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	75.00	5.80		435.00		
							Total	1,718.20	33.92	58,281.34
11	Page No.158, Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	PM enclave (beside maruthi suzuki) main road		1	157.00	7.60		1,193.20		
	7.02	1st main PM enclave		1	96.50	5.50		530.75		
	7.03	1st cross road PM enclave		1	68.80	5.00		344.00		
	7.04	2nd main PM enclave		1	46.00	6.90		317.40		
	7.05	3rd cross road PM enclave		1	79.40	5.90		468.46		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		1	210.00	5.30		1,113.00		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		1	45.00	5.00		225.00		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		1	40.00	5.70		228.00		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		1	100.00	6.00		600.00		
	7.10	5th main Rd GKVK Layout Allalasandra		1	50.00	7.00		350.00		
	7.11	Rd beside Amruth Clinic Allalasandra		1	150.00	7.40		1,110.00		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	75.00	5.80		435.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	0.00	1.00	320.00	6.60		2,112.00		
		For Bell mouth improvement		2	8.00	4.00		64.00		
							Total	9,090.81	12.72	115,635.10
12	Page No.160, Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.01	PM enclave (beside maruthi suzuki) main road	5%	1	157.00	7.60	0.05	2.98		
	7.02	1st main PM enclave	5%	1	96.50	5.50	0.05	1.33		
	7.03	1st cross road PM enclave	5%	1	68.80	5.00	0.05	0.86		
	7.04	2nd main PM enclave	5%	1	46.00	6.90	0.05	0.79		
	7.05	3rd cross road PM enclave	5%	1	79.40	5.90	0.05	1.17		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	5%	1	210.00	5.30	0.05	2.78		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout	5%	1	45.00	5.00	0.05	0.56		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout	5%	1	40.00	5.70	0.05	0.57		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout	5%	1	100.00	6.00	0.05	1.50		
	7.10	5th main Rd GKVK Layout Allalasandra	5%	1	50.00	7.00	0.05	0.88		
	7.11	Rd beside Amruth Clinic Allalasandra	5%	1	150.00	7.40	0.05	2.78		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	75.00	5.80	0.05	21.75		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	10%	1	320.00	6.60	0.05	10.56		
		For Bell mouth improvement		2	8.00	4.00	0.05	3.20		
							Total	51.71	7,620.34	394,044.16
13	Page No. 171 Item No.21 78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	7.01	PM enclave (beside maruthi suzuki) main road		1	157.00	7.60	0.04	47.73		
	7.02	1st main PM enclave		1	96.50	5.50	0.04	21.23		
	7.03	1st cross road PM enclave		1	68.80	5.00	0.04	13.76		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	7.04	2nd main PM enclave		1	46.00	6.90	0.04	12.70		
	7.05	3rd cross road PM enclave		1	79.40	5.90	0.04	18.74		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		1	210.00	5.30	0.04	44.52		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		1	45.00	5.00	0.04	9.00		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		1	40.00	5.70	0.04	9.12		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		1	100.00	6.00	0.04	24.00		
	7.10	5th main Rd GKVK Layout Allalasandra		1	50.00	7.00	0.04	14.00		
	7.11	Rd beside Amruth Clinic Allalasandra		1	150.00	7.40	0.04	44.40		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	75.00	5.80	0.03	13.05		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		1	320.00	6.60	0.04	84.48		
		For Bell mouth improvement		2	8.00	4.00	0.04	2.56		
							Total	359.28	8,699.42	3,125,548.50
14	Page No.187, Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals								
		PWP &IWTD, South Zone, SR.2018-19	Nos							
	7.01	PM enclave (beside maruthi suzuki) main road		2	7.60			16.00		
	7.02	1st main PM enclave		2	5.50			11.00		
	7.03	1st cross road PM enclave		2	5.00			10.00		
	7.04	2nd main PM enclave		2	6.90			14.00		
	7.05	3rd cross road PM enclave		2	5.90			12.00		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		2	5.30			11.00		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		2	5.00			10.00		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		2	5.70			12.00		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		2	6.00			12.00		
	7.10	5th main Rd GKVK Layout Allalasandra		2	7.00			14.00		
	7.11	Rd beside Amruth Clinic Allalasandra		2	7.40			15.00		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		2	5.80			12.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	6.60			14.00		
							Total	163.00	357.22	58,226.86
15	Page No.182, Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface.- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications, MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
		Centre Line								
	7.01	PM enclave (beside maruthi suzuki) main road		1	157.00	0.10		5.23		
	7.04	2nd main PM enclave		1	46.00	0.10		1.53		
	7.05	3rd cross road PM enclave		1	79.40	0.10		2.65		
	7.11	Rd beside Amruth Clinic Allalasandra		1	150.00	0.10		5.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		1	320.00	0.10		10.67		
		Edge Line								
	7.01	PM enclave (beside maruthi suzuki) main road		2	157.00	0.15		47.10		
	7.02	1st main PM enclave		2	96.50	0.15		28.95		
	7.03	1st cross road PM enclave		2	68.80	0.15		20.64		
	7.04	2nd main PM enclave		2	46.00	0.15		13.80		
	7.05	3rd cross road PM enclave		2	79.40	0.15		23.82		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		2	210.00	0.15		63.00		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		2	45.00	0.15		13.50		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		2	40.00	0.15		12.00		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		2	100.00	0.15		30.00		
	7.10	5th main Rd GKVK Layout Allalasandra		2	50.00	0.15		15.00		
	7.11	Rd beside Amruth Clinic Allalasandra		2	150.00	0.15		45.00		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		2	75.00	0.15		22.50		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	320.00	0.15		96.00		
							Total	456.39	454.74	207,538.79

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
16	Page No 190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956-09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	PM enclave (beside maruthi suzuki) main road		1	1.60	0.90		1.44		
	7.02	1st main PM enclave		1	1.60	0.90		1.44		
	7.03	1st cross road PM enclave		1	1.60	0.90		1.44		
	7.04	2nd main PM enclave		1	1.60	0.90		1.44		
	7.05	3rd cross road PM enclave		1	1.60	0.90		1.44		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		1	1.60	0.90		1.44		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		1	1.60	0.90		1.44		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		1	1.60	0.90		1.44		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		1	1.60	0.90		1.44		
	7.10	5th main Rd GKVK Layout Allalasandra		1	1.60	0.90		1.44		
	7.11	Rd beside Amruth Clinic Allalasandra		1	1.60	0.90		1.44		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	1.60	0.90		1.44		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		1	1.60	0.90		1.44		
							Total	18.72	14,094.82	263,855.03
17	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		5				5.00		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		1				1.00		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		2				2.00		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		1				1.00		
	7.10	5th main Rd GKVK Layout Allalasandra		6				6.00		
	7.11	Rd beside Amruth Clinic Allalasandra		1				1.00		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1				1.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2				2.00		
							Total	19.00	2,203.74	41,871.06
18	Page No.270. Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		5	2.83	0.15	0.10	0.21		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		1	2.83	0.15	0.10	0.04		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		2	2.83	0.15	0.10	0.08		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		1	2.83	0.15	0.10	0.04		
	7.10	5th main Rd GKVK Layout Allalasandra		6	2.83	0.15	0.10	0.25		
	7.11	Rd beside Amruth Clinic Allalasandra		1	2.83	0.15	0.10	0.04		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		1	2.83	0.15	0.10	0.04		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	2.83	0.15	0.10	0.08		
							Total	0.81	7,273.72	5,858.33
19	Page No.136. Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates ISand/ Kanker J Moorum KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		For Road Excavation						97.88		
		For Dismantling of BT, Granular layers						870.00		
		Dismantling of Kerbs						21.10		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
							Total	988.98	60.42	59,754.11
20	Page No.136. Item No.17.4	KSRRB M100-4.1. Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		For Road Excavation						1,503.36		
		For Dismantling of BT, Granular layers						13,572.00		
		Dismantling of Kerbs						329.22		
							Total	15,404.58	2.12	32,657.71
Footpath Improvements										
21	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 406								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	7.01	PM enclave (beside maruthi suzuki) main road	20%	2.00	157.00	0.20	0.10	1.26		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	25%	2.00	210.00	0.20	0.10	2.10		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	15%	2.00	320.00	0.20	0.10	1.92		
							Total	5.28	4,479.56	23,634.16
22	Page No.27. Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	7.01	PM enclave (beside maruthi suzuki) main road	20%	200%	157.00			139.56		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	25%	200%	210.00			233.33		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	15%	200%	320.00			213.33		
							Total	586.22	432.48	253,529.39
23	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	7.01	PM enclave (beside maruthi suzuki) main road	70%	2	157.00			219.80		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	25%	2	210.00			105.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	40%	2	320.00			256.00		
							Total	580.80	104.94	60,949.15
24	Page No.180 Item No.24.1	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	PM enclave (beside maruthi suzuki) main road	90%	2	157.00	0.27		74.89		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	50%	2	210.00	0.27		55.65		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	55%	2	320.00	0.27		93.28		
							Total	223.82	84.80	18,979.85
25	Page No.147. Item No.19.66	KSRRB M300-59.2. Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc .. complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.02	1st main PM enclave		2	96.50	1.00		193.00		
	7.03	1st cross road PM enclave		2	68.80	1.00		137.60		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	320.00	0.50		320.00		
							Total	650.60	24.38	15,861.63

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
26	Page No. 155 Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	7.02	1st main PM enclave		2	96.50	1.00	0.20	38.60		
	7.03	1st cross road PM enclave		2	68.80	1.00	0.20	27.52		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	320.00	0.50	0.20	64.00		
							Total	**130.12**	**2,001.28**	**260,406.55**
27	Page No.103. Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.02	1st main PM enclave		2	96.50	1.00		193.00		
	7.03	1st cross road PM enclave		2	68.80	1.00		137.60		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	320.00	0.50		320.00		
							Total	**650.60**	**1,116.18**	**726,186.71**
28	Page No.270. Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	7.01	PM enclave (beside maruthi suzuki) main road	70%	2.00	157.00	1.10		241.78		
	7.02	1st main PM enclave	70%	2.00	96.50	1.10		148.61		
	7.03	1st cross road PM enclave	80%	2.00	68.80	1.10		121.09		
	7.04	2nd main PM enclave	85%	2.00	46.00	1.10		86.02		
	7.05	3rd cross road PM enclave	85%	2.00	79.40	1.10		148.48		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	80%	2.00	210.00	1.10		369.60		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout	50%	2.00	45.00	1.10		49.50		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout	80%	2.00	40.00	1.10		70.40		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout	70%	2.00	100.00	1.10		154.00		
	7.10	5th main Rd GKVK Layout Allalasandra	75%	2.00	50.00	1.10		82.50		
	7.11	Rd beside Amruth Clinic Allalasandra	65%	2.00	150.00	1.10		214.50		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout	60%	2.00	75.00	1.10		99.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	65%	2.00	320.00	1.10		457.60		
							Total	**2,243.08**	**209.82**	**468,399.13**
		Drain Improvements								
29	Page No 143. Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	7.01	PM enclave (beside maruthi suzuki) main road		2	157.00	0.60	0.20	37.68		
	7.02	1st main PM enclave		2	96.50	0.60	0.20	23.16		
	7.03	1st cross road PM enclave		2	68.80	0.60	0.20	16.51		
	7.04	2nd main PM enclave		2	46.00	0.60	0.20	11.04		
	7.05	3rd cross road PM enclave		2	79.40	0.60	0.20	19.06		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout		2	210.00	0.60	0.20	50.40		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout		2	45.00	0.60	0.20	10.80		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout		2	40.00	0.60	0.20	9.60		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout		2	100.00	0.60	0.20	24.00		
	7.10	5th main Rd GKVK Layout Allalasandra		2	50.00	0.60	0.20	12.00		
	7.11	Rd beside Amruth Clinic Allalasandra		2	150.00	0.60	0.20	36.00		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout		2	75.00	0.60	0.20	18.00		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	320.00	0.60	0.20	76.80		
							Total	**345.05**	**137.80**	**47,547.61**
30	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		For Cross culvert								
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		1.00	7.00	1.70	0.10	1.19		
							Total	**1.19**	**4,479.56**	**5,330.68**
31	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		For Cross culvert								
		Culvert side walls								
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		2	7.00	0.20	0.90	2.52		
							Total	**4.90**	**7,070.20**	**34,643.98**
32	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	**Sqm**							
	7.01	PM enclave (beside maruthi suzuki) main road	**20%**	2	157.00	1.10		69.08		
	7.02	1st main PM enclave	**20%**	2	96.50	1.10		42.46		
	7.03	1st cross road PM enclave	**10%**	2	68.80	1.10		15.14		
	7.04	2nd main PM enclave	**5%**	2	46.00	1.10		5.06		
	7.05	3rd cross road PM enclave	**5%**	2	79.40	1.10		8.73		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	**10%**	2	210.00	1.10		46.20		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout	**40%**	2	45.00	1.10		39.60		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout	**10%**	2	40.00	1.10		8.80		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout	**20%**	2	100.00	1.10		44.00		
	7.10	5th main Rd GKVK Layout Allalasandra	**15%**	2	50.00	1.10		16.50		
	7.11	Rd beside Amruth Clinic Allalasandra	**25%**	2	150.00	1.10		82.50		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout	**30%**	2	75.00	1.10		49.50		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	**25%**	2	320.00	1.10		176.00		
		For Chute Drain		-	1.61	1.10		-		
							Total	**603.57**	**2,337.00**	**1,410,543.09**
33	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	**m**							
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)		1	9.10	2.10		19.11		
							Total	**19.11**	**5,418.00**	**103,537.98**
34	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1 :3)								
		PWP &IWTD, South Zone, SR:2018-19	**Sqm**							
	7.01	PM enclave (beside maruthi suzuki) main road	**5%**	1	157.00	0.90		7.07		
	7.02	1st main PM enclave	**5%**	1	96.50	0.90		4.34		
	7.03	1st cross road PM enclave	**5%**	1	68.80	0.90		3.10		
	7.04	2nd main PM enclave	**5%**	1	46.00	0.90		2.07		
	7.05	3rd cross road PM enclave	**5%**	1	79.40	0.90		3.57		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	**5%**	1	210.00	0.90		9.45		
	7.07	Shirdi sai Mandir Rd 'E' Cross Rd Mathru Layout	**5%**	1	45.00	0.90		2.03		
	7.08	Shirdi sai Mandir Rd 'D' Cross Rd Mathru Layout	**5%**	1	40.00	0.90		1.80		
	7.09	2nd main & 3rd main Shirdi sai Mandir Rd 'C' Cross Rd Mathru Layout	**5%**	1	100.00	0.90		4.50		
	7.10	5th main Rd GKVK Layout Allalasandra	**5%**	1	50.00	0.90		2.25		
	7.11	Rd beside Amruth Clinic Allalasandra	**5%**	1	150.00	0.90		6.75		
	7.12	Shirdi sai Mandir Rd 'B' Cross Rd Mathru Layout	**5%**	1	75.00	0.90		3.38		
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	**5%**	1	320.00	0.90		288.00		
							Total	**338.30**	**105.00**	**35,521.13**
Dismantling and miscellaneous items										
35	Page No.141 Item No.18.49	KSRRB M200-26 Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	**m**							
	7.01	PM enclave (beside maruthi suzuki) main road	**20%**	2.00	157.00			62.80		
	7.06	Shirdi sai Mandir Rd(Toppers Academy) Mathru Layout	**25%**	2.00	210.00			105.00		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	1.07	6th 'B' Main Road B Sector (Opposite Yelahanka new town Police Station to BBMP office)(ICI Bank)	15%	2.00	320.00			96.00		
							Total	263.80	12.72	3,355.54
		Rain Water Harvesting								
36		KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)								
		For New Drain Portion	Cum	3	0.31		1.80	1.68		
								1.68	137.80	231.99
37		Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
		a) 40mm Jelly.		3	0.31		0.40	0.37	1901.00	711.20
		b) 20mm Jelly.		(3.142*0.63*0.63)/4						
			Cum	3	0.31		0.40	0.37	1901.00	711.20
		c) Coarse sand.	Cum	3	0.31		0.30	0.28	2651.00	743.84
		d) Fine Sand	Cum	3	0.31		0.20	0.19	2651.00	495.89
		e) 12.5mm chips	Cum	3	0.31		0.30	0.28	1901.00	533.40
38		Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. **(Perforated Pipe for Rain Water Harvesting Pit)** (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth.	Rmt	5.40				5.40		
								5.40	10822.32	58440.54
39		Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
			Sqm	3	0.31			0.94		
								0.94	71.03	66.43
									Total Constuction Cost	8,393,094.85
									GST 12%	1,007,171.38
									Design Report, Proof Checking & PMC Amount	167,861.90
									Tender Premium 5%	419,654.74
									Sub Total	9,987,782.88
									Miscellaneous & Rounding Off	12,217.12
									Grand Total	10,000,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

M/s. Infra Support Engineering Consultants Pvt. Ltd.

Assistant Engineer, Yalahanka Division, BBMP

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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Assistant Executive Engineer, Yalahanka Division, BBMP

Executive Engineer, Yalahanka Division, BBMP

WORK NO 08: of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No.153 Item No.20.6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	8.08	5th A main road, A sector		7	7.00	0.30	0.15	2.21		
							Total	2.21	1,855.00	4,090.28
2	Page No. 155. Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Bell Mouth portion		11	8.00	4.00	0.15	52.80		
	3.01	4th A cross road A sector	15%	1	234.00	4.88	0.23	38.55		
							Total	91.35	2,001.28	182,822.18
3	Page No.158. Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	702.00	6.00		4,212.00		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)		1	185.00	4.00		740.00		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)		1	150.00	4.70		705.00		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)		1	150.00	4.00		600.00		
	8.05	8th A main road, A sector		1	215.00	6.00		1,290.00		
	8.06	7th A main road, A sector		1	413.00	6.70		2,767.10		
	8.07	6th A main road, A sector		1	375.00	6.50		2,437.50		
	8.08	5th A main road, A sector		1	260.00	7.00		1,820.00		
	8.09	4th A main road, A sector(Beside Basaveshwara park)		1	210.00	7.25		1,523.00		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		1	110.00	5.80		638.00		
	8.11	2nd A main road A sector(Hruthwik computer)		1	200.00	7.40		1,480.00		
	1.13	10th B main road B sector(around Sir M V Park)		1	220.00	5.90		1,298.00		
	1.15	12th B main road B sector(Brahma Kumaris)		1	152.00	4.80		729.60		
	2.03	12th B cross road B sector(around Shankarnag Park)		1	115.00	7.00		805.00		
	2.10	4th cross road B sector		1	330.00	7.00		2,310.00		
	3.01	4th A cross road A sector		1	234.00	4.88		1,142.30		
	3.06	11th A cross road A- sector		1	160.00	5.92		947.00		
	3.17	11th A Main road(Near Netaji Park)		1	105.00	5.70		598.50		
							Total	26,043.00	5.30	138,027.90
4	Page No.158. Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		For Bell Mouth portion		11	8.00	4.00		352.00		
	3.01	4th A cross road A sector	10%	1	234.00	4.88		114.23		
							Total	466.23	33.92	15,814.52
5	Page No.158. Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	702.00	6.00		4,212.00		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)		1	185.00	4.00		740.00		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)		1	150.00	4.70		705.00		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)		1	150.00	4.00		600.00		
	8.05	8th A main road, A sector		1	215.00	6.00		1,290.00		
	8.06	7th A main road, A sector		1	413.00	6.70		2,767.10		
	8.07	6th A main road, A sector		1	375.00	6.50		2,437.50		
	8.08	5th A main road, A sector		1	260.00	7.00		1,911.00		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	8.09	4th A main road, A sector(Beside Basaveshwara park)		1	210.00	7.25		1,599.15		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		1	110.00	5.80		638.00		
	8.11	2nd A main road A sector(Hruthwik computer)		1	200.00	7.40		1,480.00		
	1.13	10th B main road B sector(around Sir M V Park)		1	220.00	5.90		1,298.00		
	1.15	12th B main road B sector(Brahma Kumaris)		1	152.00	4.80		729.60		
	2.03	12th B cross road B sector(around Shankarnag Park)		1	115.00	7.00		805.00		
	2.10	4th cross road B sector		1	330.00	7.00		2,310.00		
	3.01	4th A cross road A sector		1	234.00	4.88		1,142.30		
	3.06	11th A cross road A- sector		1	160.00	5.92		947.00		
	3.17	11th A Main road(Near Netaji Park)		1	105.00	5.67		595.50		
		For Bell Mouth portion		11	8.00	4.00		352.00		
							Total	26,559.15	12.72	337,832.39
6	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)	5%	1	702.00	6.00	0.05	10.53		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	5%	1	185.00	4.00	0.05	1.85		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)	5%	1	150.00	4.70	0.05	1.76		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)	5%	1	150.00	4.00	0.05	1.50		
	8.05	8th A main road, A sector	5%	1	215.00	6.00	0.05	3.23		
	8.06	7th A main road, A sector	5%	1	413.00	6.70	0.05	6.92		
	8.07	6th A main road, A sector	5%	1	375.00	6.50	0.05	6.09		
	8.08	5th A main road, A sector	5%	1	260.00	7.00	0.05	4.55		
	8.09	4th A main road, A sector(Beside Basaveshwara park)	5%	1	210.00	7.25	0.05	3.81		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)	5%	1	110.00	5.80	0.05	1.60		
	8.11	2nd A main road A sector(Hruthwik computer)	5%	1	200.00	7.40	0.05	3.70		
	1.13	10th B main road B sector(around Sir M V Park)	0.1	1	220.00	5.90	0.05	6.49		
	1.15	12th B main road B sector(Brahma Kumaris)	0.1	1	152.00	4.80	0.05	3.65		
	2.03	12th B cross road B sector(around Shankarnag Park)	0.15	1	115.00	7.00	0.05	6.04		
	2.10	4th cross road B sector	0.15	1	330.00	7.00	0.05	17.33		
	3.01	4th A cross road A sector	0.1	1	234.00	4.88	0.05	5.71		
	3.06	11th A cross road A- sector	0.1	1	160.00	5.92	0.05	4.74		
	3.17	11th A Main road(Near Netaji Park)	0.1	1	105.00	5.67	0.05	2.98		
		For Bell Mouth portion		11	8.00	4.00	0.05	17.60		
							Total	110.06	7,620.34	838,664.14
7	Page No. 171. Item No.21.78.12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4 97% ofVG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	702.00	6.00	0.04	168.48		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)		1	185.00	4.00	0.04	29.60		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)		1	150.00	4.70	0.04	28.20		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)		1	150.00	4.00	0.04	24.00		
	8.05	8th A main road, A sector		1	215.00	6.00	0.04	51.60		
	8.06	7th A main road, A sector		1	413.00	6.70	0.04	110.68		
	8.07	6th A main road, A sector		1	375.00	6.50	0.04	97.50		
	8.08	5th A main road, A sector		1	260.00	7.00	0.04	72.80		
	8.09	4th A main road, A sector(Beside Basaveshwara park)		1	210.00	7.25	0.04	60.92		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		1	110.00	5.80	0.04	25.52		
	8.11	2nd A main road A sector(Hruthwik computer)		1	200.00	7.40	0.04	59.20		
	1.13	10th B main road B sector(around Sir M V Park)		1	220.00	5.90	0.04	51.92		
	1.15	12th B main road B sector(Brahma Kumaris)		1	152.00	4.80	0.04	29.18		
	2.03	12th B cross road B sector(around Shankarnag Park)		1	115.00	7.00	0.04	32.20		
	2.10	4th cross road B sector		1	330.00	7.00	0.04	92.40		
	3.01	4th A cross road A sector		1	234.00	4.88	0.04	45.69		
	3.06	11th A cross road A- sector		1	160.00	5.92	0.04	37.88		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	3.17	11th A Main road(Near Netaji Park)								
		For Bell Mouth portion		1	105.00	5.67	0.04	23.82		
				11	8.00	4.00	0.04	14.08		
							Total	1,055.68	8,699.42	9,183,803.71
8	Page No 187, Item No.24.41	KSRRB M800 Road markers/Road stud: KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 - DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with Seal and Signature in Originals.								
		PWP &IWTD, South Zone, SR:2018-19								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)	Nos	2	6.00			12.00		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)		2	4.00			8.00		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)		2	4.70			10.00		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)		2	4.00			8.00		
	8.05	8th A main road, A sector		2	6.00			12.00		
	8.06	7th A main road, A sector		2	6.70			14.00		
	8.07	6th A main road, A sector		2	6.50			13.00		
	8.08	5th A main road, A sector		2	7.00			14.00		
	8.09	4th A main road, A sector(Beside Basaveshwara park)		2	7.25			15.00		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		2	5.80			12.00		
	8.11	2nd A main road A sector(Hruthwik computer)		2	7.40			15.00		
	1.13	10th B main road B sector(around Sir M V Park)		2	5.90			12.00		
	1.15	12th B main road B sector(Brahma Kumaris)		2	4.80			10.00		
	2.03	12th B cross road B sector(around Shankarnag Park)		2	7.00			14.00		
	2.10	4th cross road B sector		2	7.00			14.00		
	3.01	4th A cross road A sector		2	4.88			10.00		
	3.06	11th A cross road A- sector		2	5.92			12.00		
	3.17	11th A Main road(Near Netaji Park)		2	5.67			12.00		
							Total	193.00	357.22	68,943.46
9	Page No.182, Item No.24.15	KSRRB M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803								
		PWP &IWTD, South Zone, SR:2018-19								
		Centre Line	Sqm							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	702.00	0.10		23.40		
	8.05	8th A main road, A sector		1	215.00	0.10		7.17		
	8.06	7th A main road, A sector		1	413.00	0.10		13.77		
	8.07	6th A main road, A sector		1	375.00	0.10		12.50		
	8.08	5th A main road, A sector		1	260.00	0.10		8.67		
	8.09	4th A main road, A sector(Beside Basaveshwara park)		1	210.00	0.10		7.00		
	8.11	2nd A main road A sector(Hruthwik computer)		1	200.00	0.10		6.67		
	1.13	10th B main road B sector(around Sir M V Park)		1	220.00	0.10		7.33		
	2.03	12th B cross road B sector(around Shankarnag Park)		1	115.00	0.10		3.83		
	2.10	4th cross road B sector		1	330.00	0.10		11.00		
	3.06	11th A cross road A- sector		1	160.00	0.10		5.33		
		Edge Line								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		2	702.00	0.15		210.60		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)		2	185.00	0.15		55.50		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)		2	150.00	0.15		45.00		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)		2	150.00	0.15		45.00		
	8.05	8th A main road, A sector		2	215.00	0.15		64.50		
	8.06	7th A main road, A sector		2	413.00	0.15		123.90		
	8.07	6th A main road, A sector		2	375.00	0.15		112.50		
	8.08	5th A main road, A sector		2	260.00	0.15		78.00		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	8.09	4th A main road, A sector(Beside Basaveshwara park)		2	210.00	0.15		63.00		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		2	110.00	0.15		33.00		
	8.11	2nd A main road A sector(Hruthwik computer)		2	200.00	0.15		60.00		
	1.13	10th B main road B sector(around Sir M V Park)		2	220.00	0.15		66.00		
	1.15	12th B main road B sector(Brahma Kumaris)		2	152.00	0.15		45.60		
	2.03	12th B cross road B sector(around Shankarnag Park)		2	115.00	0.15		34.50		
	2.10	4th cross road B sector		2	330.00	0.15		99.00		
	3.01	4th A cross road A sector		2	234.00	0.15		70.20		
	3.06	11th A cross road A- sector		2	160.00	0.15		48.00		
	3.17	11th A Main road(Near Netaji Park)		2	105.00	1.15		241.50		
							Total	1,602.47	454.74	728,705.69
10	Page No.190 Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956-09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	1.60	0.90		1.44		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)		1	1.60	0.90		1.44		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)		1	1.60	0.90		1.44		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)		1	1.60	0.90		1.44		
	8.05	8th A main road, A sector		1	1.60	0.90		1.44		
	8.06	7th A main road, A sector		1	1.60	0.90		1.44		
	8.07	6th A main road, A sector		1	1.60	0.90		1.44		
	8.08	5th A main road, A sector		1	1.60	0.90		1.44		
	8.09	4th A main road, A sector(Beside Basaveshwara park)		1	1.60	0.90		1.44		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		1	1.60	0.90		1.44		
	8.11	2nd A main road A sector(Hruthwik computer)		1	1.60	0.90		1.44		
	1.13	10th B main road B sector(around Sir M V Park)		1	1.60	0.90		1.44		
	1.15	12th B main road B sector(Brahma Kumaris)		1	1.60	0.90		1.44		
	2.03	12th B cross road B sector(around Shankarnag Park)		1	1.60	0.90		1.44		
	2.10	4th cross road B sector		1	1.60	0.90		1.44		
	3.01	4th A cross road A sector		1	1.60	0.90		1.44		
	3.06	11th A cross road A- sector		1	1.60	0.90		1.44		
	3.17	11th A Main road(Near Netaji Park)		1	1.60	0.90		1.44		
								1.44		
							Total	25.92	14,094.82	365,337.73
11	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete. -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	8.07	6th A main road, A sector		1				1.00		
	8.08	5th A main road, A sector		2				2.00		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		2				2.00		
	8.11	2nd A main road A sector(Hruthwik computer)		4				4.00		
	1.13	10th B main road B sector(around Sir M V Park)		3				3.00		
	1.15	12th B main road B sector(Brahma Kumaris)		1				1.00		
	2.03	12th B cross road B sector(around Shankarnag Park)		1				1.00		
	3.01	4th A cross road A sector		4				4.00		
	3.06	11th A cross road A- sector		3				3.00		
							Total	21.00	2,203.74	46,278.54

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
12	Page No.270 Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19								
		For Manhole Raising	Cum							
	8.07	6th A main road, A sector		1	2.83	0.15	0.10	0.04		
	8.08	5th A main road, A sector		2	2.83	0.15	0.10	0.08		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		2	2.83	0.15	0.10	0.08		
	8.11	2nd A main road A sector(Hruthwik computer)		4	2.83	0.15	0.10	0.17		
	1.13	10th B main road B sector(around Sir M V Park)		3	2.83	0.15	0.10	0.13		
	1.15	12th B main road B sector(Brahma Kumaris)		1	2.83	0.15	0.10	0.04		
	2.03	12th B cross road B sector(around Shankarnag Park)		4	2.83	0.15	0.10	0.04		
	3.01	4th A cross road A sector		3	2.83	0.15	0.10	0.17		
	3.06	11th A cross road A- sector					0.10	0.13		
							Total	0.89	7,273.72	6,474.99
13	Page No.136 Item No.17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder I Stone aggregates ISand/ Kanker J Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19								
		Dismantling of Masonry,	cum					22.21		
		Dismantling of Kerbs						81.91		
							Total	104.12	60.42	6,290.91
14	Page No.136, Item No.17.4	KSRRB M100-4.1 Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19								
		Dismantling of Masonry,	t.km					346.44		
		Dismantling of Kerbs						1,277.83		
							Total	1,624.27	2.12	3,443.45
		Footpath Improvements								
15	Page No.254 Item No.34.1	KSRRB M2900-1 Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19								
		Below Kerb Stone	Cum							
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	15%	2.00	185.00	0.20	0.10	1.11		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)	10%	1.00	150.00	0.20	0.10	0.30		
	8.06	7th A main road, A sector	20%	1.00	413.00	0.20	0.10	1.65		
	8.07	6th A main road, A sector	30%	2.00	375.00	0.20	0.10	4.50		
	8.08	5th A main road, A sector	40%	2.00	260.00	0.20	0.10	4.16		
	1.15	12th B main road B sector(Brahma Kumaris)	20%	2.00	152.00	0.20	0.10	1.22		
	2.03	12th B cross road B sector(around Shankarnag Park)	20%	2.00	115.00	0.20	0.10	0.92		
	2.10	4th cross road B sector	30%	2.00	330.00	0.20	0.10	2.64		
	3.17	11th A Main road(Near Netaji Park)			105.00	0.20	0.10	1.26		
							Total	17.76	4,479.56	79,548.03
16	Page No.27 Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19								
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	No							
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)	15%	2.00	185.00			123.33		
	8.06	7th A main road, A sector	10%	1.00	150.00			33.33		
	8.07	6th A main road, A sector	20%	1.00	413.00			183.56		
	8.08	5th A main road, A sector	30%	2.00	375.00			500.00		
	1.15	12th B main road B sector(Brahma Kumaris)	40%	2.00	260.00			462.22		
	2.03	12th B cross road B sector(around Shankarnag Park)	20%	2.00	152.00			135.11		
	2.10	4th cross road B sector	20%	2.00	115.00			102.22		
	3.17	11th A Main road(Near Netaji Park)	20%	2.00	330.00			293.33		
			30%	2.00	105.00			140.00		
							Total	1,973.11	432.48	853,331.09

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
17	Page No.270, Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR.2018-19	m							
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	30%	2	185.00			111.00		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)	30%	1	150.00			45.00		
	8.06	7th A main road, A sector	40%	1	413.00			165.20		
	8.07	6th A main road, A sector	40%	2	375.00			300.00		
	8.08	5th A main road, A sector	30%	2	260.00			156.00		
	1.15	12th B main road B sector(Brahma Kumaris)	10%	2.00	152.00			30.40		
	2.03	12th B cross road B sector(around Shankarnag Park)	40%	2	115.00			92.00		
	2.10	4th cross road B sector	10%	2	330.00			66.00		
	3.17	11th A Main road(Near Netaji Park)	25%	2.00	105.00			52.50		
							Total	1,018.10	104.94	106,839.41
18	Page No.180 Item No.24.1	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	45%	2.00	185.00	0.27		44.12		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)	40%	1.00	150.00	0.27		15.90		
	8.06	7th A main road, A sector	60%	1.00	413.00	0.27		65.67		
	8.07	6th A main road, A sector	70%	2.00	375.00	0.27		139.13		
	8.08	5th A main road, A sector	70%	2.00	260.00	0.27		96.46		
	1.15	12th B main road B sector(Brahma Kumaris)	30%	2.00	152.00	0.27		24.17		
	2.03	12th B cross road B sector(around Shankarnag Park)	60%	2.00	115.00	0.27		36.57		
	2.10	4th cross road B sector	30%	2.00	330.00	0.27		52.47		
	3.17	11th A Main road(Near Netaji Park)	55%	2.00	105.00	0.27		30.61		
							Total	505.09	84.80	42,831.63
19	Page No.147, Item No.19.66	KSRRB M300-59.2 Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc .. complete as per specifications. MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	1.15	12th B main road B sector(Brahma Kumaris)		2	152.00	0.50		152.00		
							Total	152.00	24.38	3,705.76
20	Page No. 155. Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR.2018-19	Cum							
		For Paver Blocks								
	1.15	12th B main road B sector(Brahma Kumaris)		2	152.00	0.50	0.20	30.40		
							Total	30.40	2,001.28	60,838.91
21	Page No.103, Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	1.15	12th B main road B sector(Brahma Kumaris)		2	152.00	0.50		152.00		
							Total	152.00	1,116.18	169,659.36
22	Page No.270, Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR.2018-19	Sqm							
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	60%	2.00	185.00	1.10		244.20		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)	85%	2.00	150.00	1.10		280.50		
	8.05	8th A main road, A sector	65%	2.00	215.00	1.10		307.45		
	8.06	7th A main road, A sector	60%	2.00	413.00	1.10		545.16		
	8.07	6th A main road, A sector	55%	2.00	375.00	1.10		453.75		
	8.08	5th A main road, A sector	85%	2.00	260.00	1.10		486.20		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	8.09	4th A main road, A sector(Beside Basaveshwara park)	65%	2.00	210.00	1.10		300.30		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)	75%	2.00	110.00	1.10		181.50		
	8.11	2nd A main road A sector(Hruthwik computer)	70%	2.00	200.00	1.10		308.00		
	1.13	10th B main road B sector(around Sir M V Park)	85%	2.00	220.00	1.10		411.40		
	1.15	12th B main road B sector(Brahma Kumaris)	80%	2.00	152.00	1.10		267.52		
	2.03	12th B cross road B sector(around Shankarnag Park)	50%	2.00	115.00	1.10		126.50		
	2.07	8th cross road B sector(Beside Yelahanka Central Mall)	50%	2.00	510.00	1.10		561.00		
	3.01	4th A cross road A sector	70%	2.00	234.00	1.10		360.36		
	3.06	11th A cross road A- sector	60%	2.00	160.00	1.10		211.20		
	3.17	11th A Main road(Near Netaji Park)	80%	2.00	105.00	1.10		184.80		
							Total	5,229.84	208.82	1,092,095.19
		Drain Improvements								
23	Page No.143 Item No.19.1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Drain Work								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		2	702.00	0.60	0.30	252.72		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)		2	185.00	0.60	0.30	66.60		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)		2	150.00	0.60	0.30	54.00		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)		2	150.00	0.60	0.30	54.00		
	8.05	8th A main road, A sector		2	215.00	0.60	0.30	77.40		
	8.06	7th A main road, A sector		2	413.00	0.60	0.30	148.68		
	8.07	6th A main road, A sector		2	375.00	0.60	0.30	135.00		
	8.08	5th A main road, A sector		2	260.00	0.60	0.30	93.60		
	8.09	4th A main road, A sector(Beside Basaveshwara park)		2	210.00	0.60	0.30	75.60		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)		2	110.00	0.60	0.30	39.60		
	8.11	2nd A main road A sector(Hruthwik computer)		2	200.00	0.60	0.30	72.00		
	1.15	12th B main road B sector(Brahma Kumaris)		2.00	152.00	0.60	0.20	36.48		
	2.03	12th B cross road B sector(around Shankarnag Park)		2.00	115.00	0.60	0.30	41.40		
	2.10	4th cross road B sector		2.00	330.00	0.60	0.30	118.80		
	3.01	4th A cross road A sector		2.00	234.00	0.60	0.30	84.24		
	3.06	11th A cross road A- sector		2.00	160.00	0.60	0.30	57.60		
	3.17	11th A Main road(Near Netaji Park)		2.00	105.00	0.60	0.30	37.80		
		For Cross culvert								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	7.00	1.70	1.00	11.90		
	3.01	4th A cross road A sector		1	5.00	1.70	1.00	8.50		
	3.06	11th A cross road A- sector		1	5.50	1.70	1.00	9.35		
		50% reduction for Culvert opening						(14.88)		
							Total	1,460.40	137.80	201,242.43
24	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1.00	7.50	1.80	0.10	1.35		
	3.01	4th A cross road A sector		1.00	5.00	1.90	0.10	0.95		
	3.06	11th A cross road A- sector		1.00	5.50	1.80	0.10	0.99		
							Total	3.29	4,479.56	14,737.75
25	Page No.229 Item No.28.8.2	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	Tonns							
		For Cross culvert								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)			1.35	@90 Kg/Cum Concrete		0.12		
	3.01	4th A cross road A sector			0.95	@90 Kg/Cum Concrete		0.09		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	3.06	11th A cross road A- sector			0.99		Kg/Cum	0.09		
							Total	0.30	72,326.98	21,416.02
26	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Cross culvert								
		Culvert Bottom slab								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	7.00	1.80	0.20	2.52		
	3.01	4th A cross road A sector		1	5.00	1.90	0.20	1.90		
	3.06	11th A cross road A- sector		1	5.50	1.80	0.20	1.98		
		Culvert side walls								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		2	7.00	0.20	0.90	2.52		
	3.01	4th A cross road A sector		2	5.00	0.20	0.90	1.80		
	3.06	11th A cross road A- sector		2	5.50	0.20	0.90	1.98		
							Total	12.70	7,070.20	89,791.54
27	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	1.13	10th B main road B sector(around Sir M V Park)	0.05	2	220.00	1.10		24.20		
	1.15	12th B main road B sector(Brahma Kumaris)	0.1	2	152.00	1.10		33.44		
	1.14	11th B main road B sector(around Sir M V Park)	0.18	2	220.00	1.10		87.12		
	2.03	12th B cross road B sector(around Shankarnag Park)	0.4	2	115.00	1.10		101.20		
	2.10	4th cross road B sector	0.25	2	330.00	1.10		181.50		
	2.01	10th B cross road B sector(around Shankarnag Park)	0.035	2	220.00	1.10		16.94		
	3.01	4th A cross road A sector	0.2	2	234.00	1.10		102.96		
	3.06	11th A cross road A- sector	0.3	2	160.00	1.10		105.60		
	3.17	11th A Main road(Near Netaji Park)	0.1	2	105.00	1.10		23.10		
	3.10	7th A cross road sector A(Towards Netaji Park)	17%	2	290.00	1.10		105.27		
							Total	781.33	2,337.00	1,825,968.21
28	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	m							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1	7.00	1.70		11.90		
	3.01	4th A cross road A sector		1	5.00	1.90		9.50		
	3.06	11th A cross road A- sector		1	5.50	1.80		9.90		
							Total	31.30	5,418.00	169,583.40
29	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C. M (1 :3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)	5%	1	702.00	1.10		38.61		
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	5%	1	185.00	0.90		8.33		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)	5%	1	150.00	0.90		6.75		
	8.04	9th A main road, A sector(Rajeev gandhi memorial park)	5%	1	150.00	0.90		6.75		
	8.05	8th A main road, A sector	5%	1	215.00	0.90		9.68		
	8.06	7th A main road, A sector	5%	1	413.00	0.90		18.59		
	8.07	6th A main road, A sector	5%	1	375.00	0.90		16.88		
	8.08	5th A main road, A sector	5%	1	260.00	0.90		11.70		
	8.09	4th A main road, A sector(Beside Basaveshwara park)	5%	1	210.00	0.90		9.45		
	8.10	3rd A main road, A sector(Beside Basaveshwara park)	5%	1	110.00	0.90		4.95		
	8.11	2nd A main road A sector(Hruthwik computer)	5%	1	200.00	0.90		9.00		
	1.13	10th B main road B sector(around Sir M V Park)	0.05	1	220.00	0.90		9.90		
	1.15	12th B main road B sector(Brahma Kumaris)	0.05	1	152.00	0.90		6.84		
	2.03	12th B cross road B sector(around Shankarnag Park)	0.05	2	115.00	1.20		13.80		
	2.10	4th cross road B sector	0.05	2	330.00	1.20		39.60		
	3.01	4th A cross road A sector	0.05	1	234.00	1.20		14.04		
	3.06	11th A cross road A- sector	0.05	1	160.00	1.20		9.60		
	3.17	11th A Main road(Near Netaji Park)	0.05	1	105.00	1.20		6.30		

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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
							Total	558.81	105.00	58,675.05
		Dismantling and miscellaneous items								
30	Page No.139. Item No.18.26	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Drains								
	8.06	7th A main road, A sector		1.00	413.00	0.25	0.15	15.49		
		For Culverts								
	8.01	12th A main road, A sector (Opposite to Bishop cotton school)		1.00	6.00	0.40	1.00	2.40		
	3.01	4th A cross road A sector		1	4.88	0.40	1.00	1.95		
	3.06	11th A cross road A- sector		1	5.92	0.40	1.00	2.37		
							Total	22.21	306.34	6,803.09
31	Page No.141. Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	m							
	8.02	11th A main road, A sector(Rajeev gandhi memorial park)	15%	2.00	185.00			55.50		
	8.03	10th A main road, A sector(Rajeev gandhi memorial park)	10%	1.00	150.00			15.00		
	8.06	7th A main road, A sector	20%	1.00	413.00			82.60		
	8.07	6th A main road, A sector	30%	2.00	375.00			225.00		
	8.08	5th A main road, A sector	45%	2.00	260.00			234.00		
	1.13	10th B main road B sector(around Sir M V Park)	25%	2.00	220.00			110.00		
	1.15	12th B main road B sector(Brahma Kumaris)	20%	2.00	152.00			60.80		
	2.03	12th B cross road B sector(around Shankarnag Park)	20%	2.00	115.00			46.00		
	2.10	4th cross road B sector	20%	2.00	330.00			132.00		
	3.17	11th A Main road(Near Netaji Park)	30%	2.00	105.00			63.00		
							Total	1,023.90	12.72	13,024.01
32	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)									
		For New Drain Portion	Cum	3	0.31		1.80	1.68		
								1.68	137.80	231.99
33	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.									
		a) 40mm Jelly.		3	0.31		0.40	0.37	1901.00	711.20
					(3.142*0.63*0.63)/4					
		b) 20mm Jelly.	Cum	3	0.31		0.40	0.37	1901.00	711.20
		c) Coarse sand.	Cum	3	0.31		0.30	0.28	2651.00	743.84
		d) Fine Sand	Cum	3	0.31		0.20	0.19	2651.00	495.89
		e) 12.5mm chips	Cum	3	0.31		0.30	0.28	1901.00	533.40
34	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. **(Perforated Pipe for Rain Water Harvesting Pit)** (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)									
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,	Rmt	5.40				5.40		
								5.40	10822.32	58,440.53

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
35		Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
			Sqm	3	0.31			0.94		
								0.94	71.03	66.43
								Total Construction Cost		16,798,555.25
								GST 12%		2,015,826.63
								Design Report, Proof Checking & PMC Amount		335,971.11
								Tender Premium 5%		839,927.76
								Sub Total		19,990,280.75
								Miscellaneous & Rounding Off		9,719.25
								Grand Total		20,000,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer,
Yalahanka Division, BBMP

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಯಲಹಂಕ ಬೆಂಗಳೂರು-106

Assistant Executive Engineer,
Yalahanka Division, BBMP

Executive Engineer,
Yalahanka Division,
BBMP

WORK NO 09: of Package 04
Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Carriageway Improvements								
1	Page No. 155. Item No.20.18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	9.06	9th A cross road A sector(MEC public school)		0.05	295.00	7.70	0.23	26.26		
							Total	26.26	2,001.28	52,546.42
2	Page No.158. Item No.21.2	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.01	11th A cross road A sector		1	215.00	6.60		1,419.00		
	9.02	10th A cross road A sector (From Ganesha Park)		1	260.00	6.70		1,742.00		
	9.03	12th A cross road A sector		1	160.00	7.00		1,120.00		
	9.04	13th A cross road A sector		1	173.00	7.50		1,297.50		
	9.05	14th A cross road A sector(Beside corporation bank)		1	350.00	7.20		2,520.00		
	9.06	9th A cross road A sector(MEC public school)		1	295.00	7.70		2,271.50		
	9.07	7th A cross road A sector		1	255.00	7.20		1,836.00		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)		1	173.00	6.50		1,124.50		
	9.09	15th A main road (Aruna sahakara bank niyamita road)		1	110.00	5.50		605.00		
	9.10	4th A cross road (Near park kuvempu)		1	140.00	6.40		896.00		
	3.09	8th A cross road sector A(Beside Lions Club)		1	508.00	8.49		4,312.80		
							Total	19,144.30	5.30	101,464.79
3	Page No.158 Item No.21.6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg per sqm using mechanical means complete as per specifications. MORTH Specification No. 502.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
		For Bell Mouth portion		10	8.00	4.00		320.00		
							Total	320.00	33.92	10,854.40
4	Page No.158 Item No.21.7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.01	11th A cross road A sector		1	215.00	6.60		1,419.00		
	9.02	10th A cross road A sector (From Ganesha Park)		1	260.00	6.70		1,742.00		
	9.03	12th A cross road A sector		1	160.00	7.00		1,120.00		
	9.04	13th A cross road A sector		1	173.00	7.50		1,297.50		
	9.05	14th A cross road A sector(Beside corporation bank)		1	350.00	7.20		2,520.00		
	9.06	9th A cross road A sector(MEC public school)		1	295.00	7.70		2,271.50		
	9.07	7th A cross road A sector		1	255.00	7.20		1,836.00		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)		1	173.00	6.50		1,180.73		
	9.09	15th A main road (Aruna sahakara bank niyamita road)		1	110.00	5.50		635.25		
	9.10	4th A cross road (Near park kuvempu)		1	140.00	6.40		896.00		
		For Bell Mouth portion		10	8.00	4.00		320.00		
	3.09	8th A cross road sector A(Beside Lions Club)		1	508.00	8.49		4,312.80		
							Total	19,550.78	12.72	248,685.86
5	Page No.160. Item No.21.17.2	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507. Using 100/120 TPH capacity HMP with sensor paver Gr-II (50 mm to 75mm) with 4.5% VG-30 Bitumen.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
	9.01	11th A cross road A sector	10%	1	215.00	6.60	0.05	7.10		
	9.02	10th A cross road A sector (From Ganesha Park)	10%	1	260.00	6.70	0.05	8.71		
	9.03	12th A cross road A sector	10%	1	160.00	7.00	0.05	5.60		
	9.04	13th A cross road A sector	10%	1	173.00	7.50	0.05	6.49		
	9.05	14th A cross road A sector(Beside corporation bank)	10%	1	350.00	7.20	0.05	12.60		
	9.06	9th A cross road A sector(MEC public school)	10%	1	295.00	7.70	0.05	11.36		
	9.07	7th A cross road A sector	10%	1	255.00	7.20	0.05	9.18		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	10%	1	173.00	6.50	0.05	5.62		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		Edge Line								
	9.01	11th A cross road A sector		2	215.00	0.15		64.50		
	9.02	10th A cross road A sector (From Ganesha Park)		2	260.00	0.15		78.00		
	9.03	12th A cross road A sector		2	160.00	0.15		48.00		
	9.04	13th A cross road A sector		2	173.00	0.15		51.90		
	9.05	14th A cross road A sector(Beside corporation bank)		2	350.00	0.15		105.00		
	9.06	9th A cross road A sector(MEC public school)		2	295.00	0.15		88.50		
	9.07	7th A cross road A sector		2	255.00	0.15		76.50		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)		2	173.00	0.15		51.90		
	9.09	15th A main road (Aruna sahakara bank niyamita road)		2	110.00	0.15		33.00		
	9.10	4th A cross road (Near park kuvempu)		2	140.00	0.15		42.00		
	3.09	8th A cross road sector A(Beside Lions Club)		2	508.00	0.15		152.40		
							Total	876.00	454.74	398,352.24
9	Page No.190. Item No.24.59	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956-09 & as per IRC 67-2012 forfull back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for theretro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.01	11th A cross road A sector		1	1.60	0.90		1.44		
	9.02	10th A cross road A sector (From Ganesha Park)		1	1.60	0.90		1.44		
	9.03	12th A cross road A sector		1	1.60	0.90		1.44		
	9.04	13th A cross road A sector		1	1.60	0.90		1.44		
	9.05	14th A cross road A sector(Beside corporation bank)		1	1.60	0.90		1.44		
	9.06	9th A cross road A sector(MEC public school)		1	1.60	0.90		1.44		
	9.07	7th A cross road A sector		1	1.60	0.90		1.44		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)		1	1.60	0.90		1.44		
	9.09	15th A main road (Aruna sahakara bank niyamita road)		1	1.60	0.90		1.44		
	9.10	4th A cross road (Near park kuvempu)		1	1.60	0.90		1.44		
	3.09	8th A cross road sector A(Beside Lions Club)		1	1.60	0.90		1.44		
							Total	15.84	14,094.82	223,261.95
10	Item No 23 KUWS&DB 2018-19	Supply and fixing of medium duty SFRC Frame and Cover confirming to IS 12592 (part-I) 1988 and IS 12592 (part-II)-1991 with latest amendment including cutting slabs to the required size for the opening and fixing the cover in CC 1:2:4 and CM 1:3 plastering 20mm thick to all exposed faces, curing for 10 days with all lead and lift etc. complete -Do heavy duty								
		KUWS&DB SR 2018-19	No.							
	9.01	11th A cross road A sector		1				1.00		
	9.02	10th A cross road A sector (From Ganesha Park)		1				1.00		
	9.05	14th A cross road A sector(Beside corporation bank)		3				3.00		
	9.07	7th A cross road A sector		2				2.00		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)		1				1.00		
	9.09	15th A main road (Aruna sahakara bank niyamita road)		1				1.00		
	3.09	8th A cross road sector A(Beside Lions Club)		5				5.00		
							Total	14.00	2,203.74	30,852.36
11	Page No.270. Item No.37.59.1	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Manhole Raising								
	9.01	11th A cross road A sector		1	2.83	0.15	0.10	0.04		
	9.02	10th A cross road A sector (From Ganesha Park)		1	2.83	0.15	0.10	0.04		
	9.05	14th A cross road A sector(Beside corporation bank)		3	2.83	0.15	0.10	0.13		
	9.07	7th A cross road A sector		2	2.83	0.15	0.10	0.08		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)		1	2.83	0.15	0.10	0.04		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	9.09	15th A main road (Aruna sahakara bank niyamita road)		1	2.83	0.15	0.10	0.04		
	3.09	8th A cross road sector A(Beside Lions Club)		5	2.83	0.15	0.10	0.21		
							Total	0.59	7,273.72	4,316.66
12	Page No.136 Item No 17.1	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 :Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1								
		PWP &IWTD, South Zone, SR:2018-19	cum							
		Dismantling of Masonry,						8.68		
		Dismantling of Kerbs						76.40		
							Total	85.08	60.42	5,140.29
13	Page No.136 Item No 17.4	KSRRB M100-4.1. Cost of Haulage Excluding loading and Unloading MORTH -100/ Chapter 1 Case-1: Surface Road								
		PWP &IWTD, South Zone, SR:2018-19	t.km							
		Dismantling of Masonry,						135.34		
		Dismantling of Kerbs						1,191.84		
							Total	1,327.18	2.12	2,813.63
		Footpath Improvements								
14	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Below Kerb Stone								
	9.01	11th A cross road A sector	20%	2.00	215.00	0.20	0.10	1.72		
	9.02	10th A cross road A sector (From Ganesha Park)	20%	2.00	260.00	0.20	0.10	2.08		
	9.06	9th A cross road A sector(MEC public school)	12%	2.00	295.00	0.20	0.10	1.42		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	10%	2.00	173.00	0.20	0.10	0.69		
	9.09	15th A main road (Aruna sahakara bank niyamita road)	10%	2.00	110.00	0.20	0.10	0.44		
	9.10	4th A cross road (Near park kuvempu)	10%	2.00	140.00	0.20	0.10	0.56		
	3.09	8th A cross road sector A(Beside Lions Club)	60%	2.00	508.00	0.20	0.10	12.19		
							Total	19.10	4,479.56	85,559.60
15	Page No.27 Item No.5.30	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.								
		PWP &IWTD, South Zone, SR:2018-19	No							
	9.01	11th A cross road A sector	20%	2.00	215.00			191.11		
	9.02	10th A cross road A sector (From Ganesha Park)	20%	2.00	260.00			231.11		
	9.06	9th A cross road A sector(MEC public school)	12%	2.00	295.00			157.33		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	10%	2.00	173.00			76.89		
	9.09	15th A main road (Aruna sahakara bank niyamita road)	10%	2.00	110.00			48.89		
	9.10	4th A cross road (Near park kuvempu)	10%	2.00	140.00			62.22		
	3.09	8th A cross road sector A(Beside Lions Club)	60%	2.00	508.00			1,354.67		
							Total	2,122.22	432.48	917,818.67
16	Page No.270 Item No.37.57	Removing and resetting of kerb stones								
		PWP &IWTD, South Zone, SR:2018-19	m							
	9.01	11th A cross road A sector	60%	2	215.00			573.33		
	9.02	10th A cross road A sector (From Ganesha Park)	50%	2	260.00			577.78		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	30%	2	173.00			230.67		
	9.09	15th A main road (Aruna sahakara bank niyamita road)	30%	2	110.00			146.67		
	9.10	4th A cross road (Near park kuvempu)	30%	2	140.00			186.67		
							Total	1,715.11	104.94	179,983.76
17	Page No.180 Item No.24.1	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.01	11th A cross road A sector	80%	2	215.00	0.27		91.16		
	9.02	10th A cross road A sector (From Ganesha Park)	70%	2	260.00	0.27		96.46		
	9.06	9th A cross road A sector(MEC public school)	12%	1	295.00	0.27		9.38		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	40%	2	173.00	0.27		36.68		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	9.09	15th A main road (Aruna sahakara bank niyamita road)	40%	2	110.00	0.27		23.32		
	9.10	4th A cross road (Near park kuvempu)	40%	2	140.00	0.27		29.68		
	3.09	8th A cross road sector A(Beside Lions Club)	60%	2	508.00	0.27		161.54		
							Total	448.22	84.80	38,009.14
18	Page No.147, Item No.19.66	KSRRB M300-59.2 Loosening, levelling and compacting original ground supporting embankment to facilitate placement of first layer of embankment I subgrade, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment I subgrade including HOM construction, labour etc complete as per specifications, MORTH Specification No. 305.3.4								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.06	9th A cross road A sector(MEC public school)	12%	1	295.00	1.00		35.40		
	3.09	8th A cross road sector A(Beside Lions Club)	80%	2	508.00	1.20		975.36		
							Total	1,010.76	24.38	24,642.33
19	Page No 155 Item No.20.18	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Paver Blocks								
	9.06	9th A cross road A sector(MEC public school)	12%	1	295.00	1.00	0.20	7.08		
	3.09	8th A cross road sector A(Beside Lions Club)	80%	2	508.00	1.20	0.20	195.07		
							Total	202.15	2,001.28	404,562.75
20	Page No.103 Item No.14.6	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications Specification No. KBS								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.06	9th A cross road A sector(MEC public school)	12%	1	295.00	1.00		35.40		
	3.09	8th A cross road sector A(Beside Lions Club)	80%	2	508.00	1.20		975.36		
							Total	1,010.76	1,116.18	1,128,190.10
21	Page No.270, Item No.37.56	Dismantling / Removing and resetting of footpath slab, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications, as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.01	11th A cross road A sector	80%	2.00	215.00	1.10		378.40		
	9.02	10th A cross road A sector (From Ganesha Park)	80%	2.00	260.00	1.10		457.60		
	9.03	12th A cross road A sector	75%	2.00	160.00	1.10		264.00		
	9.04	13th A cross road A sector	60%	2.00	173.00	1.10		228.36		
	9.05	14th A cross road A sector(Beside corporation bank)	55%	2.00	350.00	1.10		423.50		
	9.06	9th A cross road A sector(MEC public school)	80%	1.00	295.00	1.10		259.60		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	80%	2.00	173.00	1.10		304.48		
	9.09	15th A main road (Aruna sahakara bank niyamita road)	70%	2.00	110.00	1.10		169.40		
	9.10	4th A cross road (Near park kuvempu)	65%	2.00	140.00	1.10		200.20		
	3.09	8th A cross road sector A(Beside Lions Club)	60%	2.00	508.00	1.20		731.52		
							Total	3,417.06	208.82	713,550.47
		Drain Improvements								
22	Page No.143 Item No.19.1	KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		Desilting								
	9.01	11th A cross road A sector		2	215.00	0.60	0.20	51.60		
	9.02	10th A cross road A sector (From Ganesha Park)		2	260.00	0.60	0.20	62.40		
	9.03	12th A cross road A sector		2	160.00	0.60	0.20	38.40		
	9.04	13th A cross road A sector		2	173.00	0.60	0.20	41.52		
	9.05	14th A cross road A sector(Beside corporation bank)		2	350.00	0.60	0.20	84.00		
	9.06	9th A cross road A sector(MEC public school)		2	295.00	0.60	0.20	70.80		
	9.07	7th A cross road A sector		2	255.00	0.60	0.20	61.20		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)		2	173.00	0.60	0.20	41.52		

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	9.09	15th A main road (Aruna sahakara bank niyamita road)		2	110.00	0.60	0.20	26.40		
	9.10	4th A cross road (Near park kuvempu)		2	140.00	0.60	0.20	33.60		
	3.09	8th A cross road sector A(Beside Lions Club)		2	508.00	0.60	0.30	182.88		
		For Cross culvert								
	9.01	11th A cross road A sector								
	3.09	8th A cross road sector A(Beside Lions Club)		2	7.50	1.80	1.00	27.00		
		50% reduction for Culvert opening		1	8.00	1.70	1.00	13.60		
								(20.30)		
							Total	**714.62**	**137.80**	**98,474.64**
22	Page No.254 Item No.34.1	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		For Cross culvert								
	9.01	11th A cross road A sector								
	3.09	8th A cross road sector A(Beside Lions Club)		2.00	7.50	1.80	0.10	2.70		
				1.00	8.00	2.00	0.10	1.60		
							Total	**4.30**	**4,479.56**	**19,262.11**
23	Page No.229 Item No.28.8.2	KSRRB M2200-6. Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200								
		PWP &IWTD, South Zone, SR:2018-19	**Tonns**							
		For Cross culvert								
	9.01	11th A cross road A sector			2.70	@90 Kg/Cum Concrete		0.24		
	3.09	8th A cross road sector A(Beside Lions Club)			1.60	@90 Kg/Cum Concrete		0.14		
							Total	**0.39**	**72,326.98**	**27,990.54**
24	Page No.270 Item No.37.59.2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
		PWP &IWTD, South Zone, SR:2018-19	**Cum**							
		For Cross culvert								
		Culvert Bottom slab								
	9.01	11th A cross road A sector		2	7.50	1.80	0.20	5.40		
	3.09	8th A cross road sector A(Beside Lions Club)		1	8.00	2.00	0.20	3.20		
		Culvert side walls								
	9.01	11th A cross road A sector		4	7.50	0.20	0.90	5.40		
	3.09	8th A cross road sector A(Beside Lions Club)		2	8.00	0.20	0.90	2.88		
							Total	**16.88**	**7,070.20**	**119,344.98**
25	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 100mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR:2018-19	**Sqm**							
	9.01	11th A cross road A sector	10%	2	215.00	1.10		47.30		
	9.02	10th A cross road A sector (From Ganesha Park)	10%	2	260.00	1.10		57.20		
	9.03	12th A cross road A sector	15%	2	160.00	1.10		52.80		
	9.04	13th A cross road A sector	30%	2	173.00	1.10		114.18		
	9.05	14th A cross road A sector(Beside corporation bank)	35%	2	350.00	1.10		269.50		
	9.06	9th A cross road A sector(MEC public school)	10%	2	295.00	1.10		64.90		
	9.07	7th A cross road A sector	20%	2	255.00	1.10		112.20		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	10%	2	173.00	1.10		38.06		
	9.09	15th A main road (Aruna sahakara bank niyamita road)	20%	2	110.00	1.10		48.40		
	9.10	4th A cross road (Near park kuvempu)	25%	2	140.00	1.10		77.00		
	3.09	8th A cross road sector A(Beside Lions Club)	35%	2	508.00	1.10		391.16		
	6.01	Navachetana hospital road to Main road near shathayu ayurvedic clinic	2%	2	348.00	1.20		12.53		
	6.02	Road behind Navachethana hospital (beside green trends)	2%	2	236.00	1.20		11.33		
	3.12	4th A cross road A sector(Towards Netaji Park)	18%	2	178.80	1.10		70.80		
							Total	**1,367.36**	**2,337.00**	**3,195,522.19**

Detailed Quantity Estimate for Road and allied Works
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SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
26	Approved Data Rate	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								
		PWP &IWTD, South Zone, SR 2018-19	m							
	9.01	11th A cross road A sector		2	7.00	1.70		23.80		
	3.09	8th A cross road sector A(Beside Lions Club)		1	8.00	2.00		16.00		
							Total	39.80	5,418.00	215,636.40
27	Page No.27 Item No.5.33	Removing & Refixing stone slabs of drains and pointing in C M (1 :3)								
		PWP &IWTD, South Zone, SR:2018-19	Sqm							
	9.01	11th A cross road A sector	5%	1	215.00	0.90		9.68		
	9.02	10th A cross road A sector (From Ganesha Park)	5%	1	260.00	0.90		11.70		
	9.03	12th A cross road A sector	5%	1	160.00	0.90		7.20		
	9.04	13th A cross road A sector	5%	1	173.00	0.90		7.79		
	9.05	14th A cross road A sector(Beside corporation bank)	5%	1	350.00	0.90		15.75		
	9.06	9th A cross road A sector(MEC public school)	5%	1	295.00	0.90		13.28		
	9.07	7th A cross road A sector	5%	1	255.00	0.90		11.48		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	5%	1	173.00	0.90		7.79		
	9.09	15th A main road (Aruna sahakara bank niyamita road)	5%	1	110.00	0.90		4.95		
	9.10	4th A cross road (Near park kuvempu)	5%	1	140.00	0.90		6.30		
	3.09	8th A cross road sector A(Beside Lions Club)	5%	1	508.00	1.20		30.48		
							Total	126.38	105.00	13,269.38
		Dismantling and miscellaneous Items								
28	Page No.139 Item No.18.26	KSRRB M200-15 1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of including cost of all labour charges complete as per specifications. as directed by the Engineer,with all lead and lift etc. complete as per specifications complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	Cum							
		For Culverts								
	9.01	11th A cross road A sector		2.00	6.60	0.40	1.00	5.28		
	3.09	8th A cross road sector A(Beside Lions Club)		1.00	8.49	0.40	1.00	3.40		
							Total	8.68	306.34	2,657.78
30	Page No.141 Item No.18.49	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202								
		PWP &IWTD, South Zone, SR:2018-19	m							
	9.01	11th A cross road A sector	20%	2.00	215.00			86.00		
	9.02	10th A cross road A sector (From Ganesha Park)	20%	2.00	260.00			104.00		
	9.06	9th A cross road A sector(MEC public school)	12%	2.00	295.00			70.80		
	9.08	As per site 5th A cross road(From google map 6th A cross road)(Near Kuvempu park)	10%	2.00	173.00			34.60		
	9.09	15th A main road (Aruna sahakara bank niyamita road)	10%	2.00	110.00			22.00		
	9.10	4th A cross road (Near park kuvempu)	10%	2.00	140.00			28.00		
	3.09	8th A cross road sector A(Beside Lions Club)	60%	2.00	508.00			609.60		
							Total	955.00	12.72	12,147.60
		Rain Water Harvesting								
31		KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)								
		For New Drain Portion	Cum	41	0.31		1.80	23.01		
							Total	23.01	137.80	3,170.54
32		Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.								
		a) 40mm Jelly.		41	0.31		0.40	5.11	1901.00	9,719.71
					(3.142*0.63*0.63)/4					
		b) 20mm Jelly.	Cum	41	0.31		0.40	5.11	1901.00	9,719.71
		c) Coarse sand.	Cum	41	0.31		0.30	3.83	2651.00	10,165.81
		d) Fine Sand	Cum	41	0.31		0.20	2.56	2651.00	6,777.21

Detailed Quantity Estimate for Road and allied Works
BBMP Division: Yalahanka Division

SL. No.	Page No Item No.	DESCRIPTION OF WORK	Unit	No	L	B	D	Quantity	Rate in Rs.	Amount in Rs.
		e) 12.5mm chips	Cum	41	0.31		0.30	3.83	1901.00	7,289.78
33		Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. **(Perforated Pipe for Rain Water Harvesting Pit)** (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
		0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,	Rmt	73.80				73.80		
							Total	73.80	10822.32	798687.32
34		Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
			Sqm	41	0.31			12.78		
								12.78	71.03	907.93
									Total Construction Cost	16,801,913.20
									GST 12%	2,016,229.58
									Design Report, Proof Checking & PMC Amount	336,038.26
									Tender Premium 5.0%	840,095.66
									Sub Total	19,994,276.71
									Miscellaneous & Rounding Off	5,723.29
									Grand Total	20,000,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted is based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

For M/s. Infra Support Engineering Consultants Pvt. Ltd.

Infra Support Engineering Consultants Pvt. Ltd. BANGALORE

Assistant Engineer,
Yalahanka Division, BBMP

Assistant Executive Engineer

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Executive Engineer,
Yalahanka Division, BBMP